

October 29, 2021

Fort Ben Branch Library Project 9330 East 56th Street Lawrence, IN 46216

TO: ALL BIDDERS OF RECORD

This Addendum forms a part of and modifies the Bidding Requirements, Contract Forms, Contract Conditions, and the Drawings and Specifications dated September 24, 2021, by Ratio Architects, Inc. Acknowledge receipt of the Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of Page ADD 3-1 through ADD 3-10 and attached Ratio Architects, Inc. Addendum No. 3 dated October 29, 2021, consisting of 5 pages, Specification Section 03 30 00 – Cast-In-Place Concrete, and Drawing Sheets: A-001, A-002, A-101, A-102, A-105, A-131, A-351, A-352, A-402, A-502, A-521, E001, E201, E801, M201, M401, M503, M602, M603, M701, P200, and P201.

A. SPECIFICATION SECTION 01 12 00 MULTIPLE CONTRACT SUMMARY

1. Paragraph 3.03A Bid Categories

A. <u>Bid Category No. 1- General Trades</u>

1. Delete the following Specification Sections:		
Section	01 51 80	Temporary Fire Protection
Section	01 51 60	Temporary Sanitary Facilities
Section	08 31 13	Access Doors and Frames
Section	01 57 60	Project Signs
2. Replace the following Specification Section: Section03 30 00Cast-In-Place Concrete		
3. Add the follo	wing Specificati	ion Sections:
Section	07 21 00	Thermal Insulation
Section	09 69 00	Access Flooring
Section	20 05 00	Common Mechanical Work Results

Section	20 05 03	Basic Piping Materials and Methods
Section	20 05 13	Motors for Mechanical Equipment
Section	20 05 19	Thermometers and Gauges
Section	20 05 23	General Duty Valves
Section	20 05 29	Mechanical Hangers and Supports
Section	20 05 48	Vibration Controls
Section	20 05 53	Mechanical Identification
Section	20 07 00	Mechanical Insulation

- 3. Substitute the following clarifications:
 - 4. Provide temporary access roads and construction entrances as indicated on Site Logistics Plan FBL-SLP-01 dated September 24, 2021. Include installation and removal when and as directed by the Construction Manager. Provide snow fencing as indicated in Section 01 53 10. <u>The Construction Manager shall provide and remove the perimeter construction fencing and gates for the project.</u>
 - 8. Provide temporary sanitary facilities for entire project duration. <u>The</u> Construction Manager will provide temporary sanitary facilities for the project.
 - 17. Provide dumpsters and rubbish containers for the duration of the project. Bid Category Nos. 3, 4 and 6 shall provide dumpsters and rubbish containers for their own work. The Construction Manager shall provide dumpsters for the balance of the Contractors.
 - 27. Regarding Specification Section 06 10 53 Misc. Rough Carpentry; The Bid Category No. 4 Contractor is responsible for all wood blocking and sheathing required for roof installation including inside parapet wall sheathing, MEP curbs, metal roof copings, roof hatches, etc. This includes any "Densdeck" type sheathing or plywood required at the inside face and top of parapet walls. The Bid Category No. 6 Contractor is responsible for wood blocking and plywood within the Metal Stud Walls, plywood attached to metal stud walls, plywood or wood studs required at all window/storefront/curtainwall openings (including openings located within CMU/Brick construction). The Bid Category No. 1 Contractor is responsible for all other wood blocking required in the Contract Documents. including but not limited to temporary enclosures for winter conditions at all window and door openings.
 - 29. Provide plywood covered frames or reinforced plastic for window openings, overhead door openings, and hinged plywood at door openings to maintain temperatures necessary to perform the work and provide security. Provide protection against adverse weather so that the building and materials will not be damaged, and against unauthorized entry. Protection shall be provided well in advance of finishing operations to prevent penetration of dust or moisture into finished areas. The Construction Manager shall provide temporary enclosures for the project.

- 4. Add the following clarification:
 - 43. Coordinate the Access Flooring System with all other Contractors whose work passes through and beneath the Access Flooring System. Seal all penetrations created by ductwork, piping, conduit, diffusers, grilles, etc. which pass through the Access Flooring System and plenum divider. Seal gaps between Access Floor System and adjacent vertical construction.

D. Bid Category No. 4 – Roofing

- 1. Substitute the following clarification:
 - 3. Regarding Specification Section 06 10 53 Misc. Rough Carpentry; The Bid Category No. 4 Contractor is responsible for all wood blocking and sheathing required for roof installation including inside parapet wall sheathing, MEP curbs, metal roof copings, roof hatches, etc. This includes any "Densdeck" type sheathing or plywood required at the inside face and top of parapet walls. The Bid Category No. 6 Contractor is responsible for wood blocking and plywood within the Metal Stud Walls, plywood attached to metal stud walls, plywood or wood studs required at all window/storefront/curtainwall openings (including openings located within CMU/Brick construction). The Bid Category No. 1 Contractor is responsible for all other wood blocking required in the Contract Documents. including but not limited to temporary enclosures for winter conditions at all window and door openings.

E. Bid Category No. 6 - Metal Framing/Drywall/Ceilings

1. Add the folle	owing Specificati	ion Section:
Section	08 31 13	Access Doors and Frames

- 2. <u>Substitute the following clarification:</u>
 - 3. Regarding Specification Section 06 10 53 Misc. Rough Carpentry; The Bid Category No. 4 Contractor is responsible for all wood blocking and sheathing required for roof installation including inside parapet wall sheathing, MEP curbs, metal roof copings, roof hatches, etc. This includes any "Densdeck" type sheathing or plywood required at the inside face and top of parapet walls. The Bid Category No. 6 Contractor is responsible for wood blocking and plywood within the Metal Stud Walls, plywood attached to metal stud walls, plywood or wood studs required at all window/storefront/curtainwall openings (including openings located within CMU/Brick construction). The Bid Category No. 1 Contractor is responsible for all other wood blocking required in the Contract Documents. including but not limited to temporary enclosures for winter conditions at all window and door openings.

F. Bid Category No. 7 – Flooring

1. Delete the following Specification Section: Section 09 69 00 Access Flooring

G. Bid Category No. 8 - Plumbing

Section	20 05 00	Common Mechanical Work Results
Section	20 05 03	Basic Piping Materials and Methods
Section	20 05 13	Motors for Mechanical Equipment
Section	20 05 19	Thermometers and Gauges
Section	20 05 23	General Duty Valves
Section	20 05 29	Mechanical Hangers and Supports
Section	20 05 48	Vibration Controls
Section	20 05 53	Mechanical Identification
Section	20 07 00	Mechanical Insulation

Request For Information (RFI) Responses

All bidders are responsible for reviewing all RFI questions, their associated responses, and include the scope of work indicated within their bid as required.

Bid Category No.	RFI Question	Team Response
1	There is a spec section for Crushed Aggregate Surfacing. There is a note at the sidewalk at the SW entry walk pointing to a limestone seat wall. Please clarify.	Refer to L-201 and Detail A1/L704 for extent of this scope of work. This "french drain" is located on the north side of the limestone seat wall/bench and is limited to the east- west dimension of said seat wall/bench.
1	Spec section 01 51 60, 1.02, A – Please provide clarification on "Saniprep". Is this a specific item? I cannot find where to obtain this item.	Temporary Sanitary Services have been removed from BC No. 1 scope of work
1	What is the schedule for installation of the curtainwall and storefront? Can you further define areas and time that temp protection will be needed?	Temporary Enclosures have been removed from BC No. 1 scope of work
1	There is an enlarged crosswalk element at the top of L-201. Verify this is the detail for items 32-17I. (sidenote – the numbers are shifted down)	This is the correct detail for Item 32-17I. The numbers should be shifted "up" to align with the colored thermoplastic striping pattern.
1	Can the BP1 General Trades Contractor employee the Civil Engineer of Record for Field Engineering?	Negative. Field Engineering requires an independent surveyor which was not a part of the design team.

Bid Category No.	RFI Question	Team Response
1	Per Aggregate Pier System Note Item 6 – GC to engage in Independent Testing Agency. Is it the intent of the owner to contract with this testing agency and GC to coordinate installation as part of their 3rd party inspections?	The CM will hire the testing agency. BC No. 1 Aggregate Pier Subcontractor shall provide all testing equipment and labor required to conduct bearing capacity load testing; the testing agency shall witness the test(s).
1	Exterior sign A-201: Please provide depth of letter and advise if these letters should illuminate.	1/2" depth. Non-illuminated.
1	BP1 – Scope Item 2 – Is there a Civil demolition drawing going to be provided?	No.
1	Specification Section 01 53 20 call for tree protection. Are there specific tree's that the owner wants saved?	Review sheet L-501; Tree Protection Notes 1 & 2
1	Specifications Section 31 14 17 Selective Site Demolition – Item 1.2.A.2 & 3 – Are there specific items that we are to repair and what is the extent of site demolition.	Site Clearing/Demolition work is generally limited to within the Construction Fence (CF) boundary indicated on Drawing L-201. Refer to Section 01 12 00 Multiple Contract Summary, Paragraph A Bid Category No. 1, Clarification No. 39 for additional site demolition work that is required to be included by BC No. 1.
1	There are a series of 50 gal drums, who's responsibility is it to dispose of these and what is in them?	These are the excess auger cuttings from the geotechnical investigation and should have been labeled accordingly. At the time of the work it had not yet been confirmed that the cuttings were clean and were containerized as a precaution. It has since been determined that they are clean and can be disposed of. BC No 1 Contractor shall properly dispose of these items.
1	Specification Section 057500 – Decorative Formed Metal – Could not specifically find this spec section ID'd on the drawings, please ID where this specification section applies specifically on the drawings.	See Detail F4/A-351, F6/A-351, C6/A-353 and E6/A-353. In general, this work is located above the curtainwall and at the cantilevered roof edge.

Bid Category No.	RFI Question	Team Response
1	Spec 057500 – 1.2.B – Related Requirements – Specification sections 076200 & 077100 are not specific specs related to BP1 Scope of Work. Please Advise.	These are related sections of adjacent finish components and not necessarily included within BC No. 1. Coordinate all work with adjacent finishes provided by other Bid Category Contractors.
1	Please confirm Footing Depths listed for WF30T and WF42T are correct on Wall Footing Schedule.	Yes, the 1'-2" thickness shown in the schedule is correct. "T" represents top reinforcing and does not necessarily designate a thicker footing.
1	Unable to find Vapor Barrier Spec for Slabs. Please advise.	Please see the revised 03 30 00 specification section in Addendum 3 for Section 2.11 - Waterstops and Section 2.12 - Vapor Retarders.
1	The Specification Section 126200 Furnishings & Upholstery as well as Furniture Drawings A-161 lacks many necessary details in order to provide accurate quote to furnish Building. Please advise on how to go about pricing this work?	The majority of furniture shown on A-161 is outside this scope of work. The upholstery that is to be included within the bid is indicated as TEX-01 and TEX-02 per elevations D1/A-502. This references the banquette seat and back fabric along column line 11.3. The finish schedule on sheet A-002 indicates the allowance to price. Architect to select final fabric within approved manufacturer's lines indicated within specification that fall within the price allowance structure.
1	Section 062015, 1.2, A, 1 Exterior thermally modified wood used at benches. I cannot find where the thermally modified wood is used. Please clarify.	This product is required at the exterior bench seat wall; see B4/L-704 and D4/L-704.
1	Detail C3/A-352 shows a plenum divider system below the access floor. How is this constructed, where does it occur, does it divide the zones shown on the HVAC drawings, and which bid package is responsible for this work?	The plenum divider is an accessory that is to be provided by the Access Flooring contractor. It's essentially a bent metal sheet (L-shaped) that's caulked at the edges and attached to the slab/side of pedestals. The intent of this is to help pressurize the access floor system south of column line D.9. This plenum divider occurs at the two locations where the access floor system extends north of column line D.9.

Bid Category No.	RFI Question	Team Response
1	Details on Sheet A322 Show the stud cavity painted flat black, what is the extent of this work? Which bid category is responsible for doing this painting?	The extent of the flat black paint is in the visible area with the stud cavities behind the return grille RG-3 between column lines 9 & 10.
		BC No. 1 Contractor is responsible for painting this in the field.
1	Which contract is responsible for sealing the concrete opening in the mechanical room with sheet metal like is shown on Detail A1/A-322?	Access Flooring Contractor shall seal the gap between the concrete curb and the sheetmetal ductwork.
1	We did not find soil mixes for this project. Please provide.	To be answered in Addendum No. 4 on 11/1/21
1	Several items in the landscape schedule are listed as in groups of 1-3 or 1-5. We need a specific count of plants needed in these areas. Highlighted below in yellow are a couple of examples but not a complete list.	To be answered in Addendum No. 4 on 11/1/21
1 and 6	BP1 – General Trades – Specification Section 083113 – Access Doors & Frames – Is it your intent that this bid package acquire all access doors for the MEP trades? If so, can a base line quantity be established for the MEP Trades?	Access Doors and Frames reassigned to BC No. 6 in Addendum No. 3; required quantities are indicated on the Architectural, Mechanical and Plumbing drawings.
1 and 6	Detail A3/A-503 shows painted plywood behind wall panels. The plywood falls under BC-06. Will the paint fall under BC-01?	BC No. 1 is responsible for painting these plywood sheets.
1 and 6	Sheet A-524 shows details for the display case. Please specify which layers of wood BC-01 and BC-06 are responsible for.	BC No. 1 is responsible for all plywood layers and blocking associated with this display case.
1 and 6	Sheet A-521 shows details for the banquette cavity at window. Please specify which layers of wood BC-01 and BC-06 are responsible for.	BC No. 1 is responsible for all plywood layers and blocking associated with this banquette and cavity wall.
1 and 6	Which Bid Category is responsible for the rigid insulation and plywood on the face of the sheathing behind the metal panels? How is this installed?	BC No. 6 Contractor is responsible for the rigid insulation and plywood sheathing behind the Metal Panel Systems. Intent is for the plywood to be attached to studs through the rigid insulation.
1 and 10	Note 5 – Is it the responsibility of the GC to coordinate final locations of the fire alarm/data voice locations?	BC No. 10 is responsible for coordination of devices provided under their scope of work.

Bid Category No.	RFI Question	Team Response
1, 3, 6	Please confirm that all rigid insulation falls under BC-03 as Thermal insulation falls under multiple categories.	Rigid insulation is assigned to BC No. 1 at foundation walls via Clarification Note No. 35 in Section 01 12 00; BC No. 3 and BC No. 6 clarifications are located within these RFI Responses.
1,6,9	Details on A322 show the stud cavity being lined with sheet metal. Which contract is responsible for this work?	BC No. 9 Contractor is responsible for constructing and sealing the return air plenum between the studs. BC No. 1 Contractor is responsible for painting this plenum.
2 and 6	Who furnishes and installs the Galvanized 3x3x1/4" angle on the face of the sheathing at the parapet shown in detail C6/A351?	Addendum No. 3 drawings will be revised to remove this angle and replace with (2) 2x4 studs turned sideways. BC No. 6 is responsible for these 2x4 studs.
3	Which Bid Category is responsible for the rigid insulation on the face of the gyp sheathing behind brick or masonry? How is this rigid insulation installed?	BC No. 3 Contractor is responsible for cavity wall insulation located behind CMU or brick veneer. Attachment is a means and methods issue.
4 and 6	In detail E6/A353 is all the plywood on the metal stud by the roofer?	At this condition, BC No. 4 Contractor is responsible for insulation and plywood sheathing required to the top of their parapet roofing system PLUS another 1'-0"; BC No. 6 is responsible for all other insulation and sheathing located behind Metal Panels.
4 and 6	Which Bid category is responsible for the spray foam insulation in the roof deck, like shown in detail F4/A351?	BC No. 4 Contractor is responsible for spray foam insulation required above the roof deck; Bid Category No. 6 Contractor is responsible for spray foam insulation required below the roof deck. Refer to Section 072100 2.7-Accessories for the spray foam insulation product specification.
4 and 6	Drawings show something in the Roof Flutes. Is this to be flute filler or spray foam insulation?	BC No. 4 Contractor is responsible for spray foam insulation required above the roof deck; Bid Category No. 6 Contractor is responsible for spray foam insulation required below the roof deck. Refer to Section 072100 2.7 Accessories for the spray foam insulation product specification.

Bid Category No.	RFI Question	Team Response
6	For Alternate No. 4, the specs mention a length of 8 feet for the wood panels. Are 10-foot panels acceptable to use to prevent waste, and provide cleaner cuts for the wood ceiling clouds?	10-foot panels are acceptable.
6	Is wall type F6N designed to be load bearing, or is it just a part of 054000 scope? 2.	Wall type F6N is not intended to be self- supporting but the walls do have some structural component. For example, the wall along column line D.9 includes (2) two long spans – one between CL 6 and 7.5 (between 7 and 8) as well as between CL's 9 and 11. Reference detail A1/A-322 and C3/A-35
6	A3/A-503 calls for "Painted Plywood", however, C6/A-521 calls for "Painted 3/4" Particle Board Paneling", Please clarify.	Addendum 3 drawings will be revised to read ¾" birch plywood, sanded A-face, painted.
7	For alternate 3, only 1 elevation is provided for T-2 and T-4. Please clarify if the alternate affects any other walls in these restrooms	The alternate affects all walls within the restrooms noted.
9	Plan M201 note 10 States 5 instances, only 4 are shown.	There are two (2) locations on Column Line E between Column Lines 9 and 10; only one of these is marked with Note 10. This is clearly a large RA plenum as indicated on A1/A502. Bidders are required to review and include all scope of work items associated with their Bid Category as indicated on ALL drawings included in the bid documents.
9	Plan M401 has some of the return hatched (indicating double wall) and no supply. Specs state all of AHU -1 return and supply is double wall. Which is correct?	The supply and return ductwork to AHU-1 is to be double wall
10	Is there rack space available for the paging equipment in IT room 115?	Yes, there is space within the telecommunications rack for paging equipment. There is also wall space mounting to the plywood backboard.

Bid Category No.	RFI Question	Team Response
10	There is an add alternate for control of the electric fireplace in adult collection. Notes 55 & 56 on drawing E301. I do not see an alternate in the specs that address this. What alternate # should we use for this?	This work is to be included in the Base Bid. Plan note will be removed to correct this issue.
10	Mechanical plans list RG-3. There is no RG-3 listed on the schedule.	RG-3 will be noted on sheet A-502. Mechanical drawings will reference the finished grille to the Architectural drawings. See Addendum 3 drawings.
ALL	CMID Drawing 1 of 2. Can any portion of Lot 2 be used for a laydown/trailer area?	Negative. That parcel is owned by a private developer.
	Can we bid multiple Bid Categories? Can we submit combination bids?	Yes. See Section 00 10 00 Instructions to Bidders Paragraph 1.19 A and B. Individual Bids must be submitted (in
ALL		 separate envelopes) for each Bid Category AND Combined Bid. Example for Bidding BC Nos. 8 and 9: 1. Submit Sealed Bid for BC No. 8 2. Submit Sealed Bid for BC No. 9 3. Submit Sealed Bid for COMBO 8 & 9 4. All three (3) sealed bids can be contained within a single envelope

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ADDENDUM NO. 3

DATE: 10 / 29 / 2021

PROJECT: FORT BENJAMIN HARRISON BRANCH INDIANAPOLIS PUBLIC LIBRARY LAWRENCE, INDIANA

RATIO PROJECT NUMBER: 18005.000

OWNER:

INDIANAPOLIS PUBLIC LIBRARY INDIANAPOLIS, IN 2450 North Meridian Street Indianapolis, IN 46208 (317) – 275-4100

ARCHITECT / LANDSCAPE ARCHITECT:

RATIO ARCHITECTS, INC. 101 South Pennsylvania Street Indianapolis, Indiana 46204-3684 Phone: (317) 633-4040 Fax: (317) 633-4153

STRUCTURAL ENGINEER:

Lynch, Harrison, & Brumleve, Inc 550 Virginia Avenue Indianapolis, IN 46203 Phone: (317)-423-1550

MECHANICAL/ELECTRICAL ENGINEER:

Loftus Engineering, Inc. 201 South Capitol Avenue, Suite 310 Indianapolis, IN 46225 Phone: (317) 352-5822

TECHNOLOGY DESIGN:

Design 27 1650 East 49th Street Indianapolis, IN 46205 Phone: (317) 536-8000

CIVIL ENGINEER:

The Schneider Corporation Historic Fort Harrison 530 E. Ohio Street, Suite G Indianapolis, IN 46204 Phone: (317) 655-7777

10/29/2021-ACS

INDIANAPOLIS PUBLIC LIBRARY FORT BENJAMIN HARRISON BRANCH 100% CONSTRUCTION SET This Addendum is issued in accordance with the provisions of Contract Documents and becomes a part of the Contract Documents as provided therein. The information contained herein modifies the original Bidding Documents dated October 4, 2021 and all prior Addenda as applicable. Requirements of the original Bidding Documents and previous Addenda remain in effect except as modified by this Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

PART 1 - GENERAL CLARIFICATIONS (BIDDER QUESTIONS & RESPONSE)

1. Response to Landscape Architecture questions will be distributed in Addendum 04 on Monday, 11/1/2021.

PART 2 – PROJECT MANUAL CHANGES

- 1. SECTION 033000 CAST IN PLACE CONCRETE a. See revised section.
 - b. Add the following:
 - 1. 2.11 Waterstops
 - 2. 2.12 Vapor Retarders
- 2. SECTION 071326 SELF-ADHERING SHEET WATERPROOFING
 a. Add to Paragraph 2.1.A.1 to read: "n. Tremco"
- 3. SECTION 072726 FLUID APPLIED MEMBRANE AIR BARRIERS
 - a. Add to Paragraph 2.3.A.1.a to read: "3. Tremco"

4. SECTION 263323 – SMALL INVERTER SYSTEMS

- a. See revised section.
- b. Add Paragraph 2.1.B.4 to read: "4. Myers Emergency Power Systems."

PART 3 – DRAWING SHEET CHANGES

- 1. SHEET A-001 GENERAL NOTES, SYMBOLS, AND STANDARD MOUNTING HEIGHTS
 - a. See revised sheet.
 - b. Revise dimension for centerline of watercloset to be 16" 18" from sidewalk to centerline.

2. SHEET A-002 – INT. PARTITION TYPES, STAND. PARTITION DETAILS, FINISH SCHEDULE

- a. See revised sheet.
- b. Revise dimension for height of electrical devices as required by the plan reviewer to illustrate minimum and maximum.

3. SHEET A-101 – FIRST FLOOR PLAN

- a. See revised sheet.
- b. Add plan note to identify fixed banquette furniture and linear bar grille as required by plan

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reviewer.

4. SHEET A-102 – CLERESTORY PLAN – LOWER ROOF PLAN

- a. See revised sheet.
- b. Add roof drain with overflow detail F7 and section detail view mark on plan to reference roof drain detail.

5. SHEET A-105 – UPPER ROOF PLAN

- a. See revised sheet.
- b. Add section detail view mark for roof drain with overflow detail.

6. SHEET A-131 - REFLECTED CEILING PLAN

- a. See revised sheet.
- b. Clarify location of ceiling access panels. Coordinate final location of VAV box and access door.
- c. Add ceiling access panel to RCP Legend, additional notes.
- d. Add clarifying notes for mechanical unit in ceiling of North Vestibule.

7. SHEET A-351 – EXTERIOR DETAILS

- a. See revised sheet.
- b. Updated detail C6 to remove L3x3 angle at top of stud wall and replace with (2) 2x4 blocking continuous below top plate.

8. SHEET A-352 – EXTERIOR DETAILS

- a. See revised sheet.
- b. Updated detail E1 to remove L3x3 angle at top of stud wall and replace with (2) 2x4 blocking continuous below top plate.

9. SHEET A-402 - ENLARGED PLANS - RESTROOMS

- a. See revised sheet.
- b. Revise dimension for centerline of watercloset to be 16" 18" from sidewalk to centerline.

10. SHEET A-502 – INTERIOR ELEVATIONS

- a. See revised sheet.
- b. Revise note in detail A1 as indicated.

11. SHEET A-521 - INTERIOR DETAILS

- a. See revised sheet.
- b. Revise detail C6.

12. SHEET M201 – FIRST FLOOR MECHANICAL PLAN

- a. See revised sheet.
- b. Revise Plan Note 10 as indicated on attached Drawing.

13. SHEET M401 - ENLARGED MECHANICAL ROOM PLAN

a. See revised sheet.

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- b. Detail callout of "In-Line Horizontal Fan Detail" and shifted RF-1 upstream allowing for straight ductwork before transition to and from fan as indicated on attached Drawing.
- c. Clarification: The supply and return ductwork to AHU-1 is to be double wall; reference Specification Section 233113 for further information.
- d. Changed supply ductwork to 30"x42" for AHU-1 as indicated on attached Drawing.

14. SHEET M503 – MECHANICAL DETAILS

- a. See revised sheet.
- b. Revise Detail 1 "Multi-Condensing Unit Refrigerant Piping Diagram" as indicated on attached Drawing.

15. SHEET M602 – HVAC INSTRUMENTATION AND CONTROL SCHEMATICS

- a. See revised sheet.
- b. Revise "AHU-1 Control Schematic" section F as indicated on attached Drawing.

16. SHEET M603 - HVAC INSTRUMENTATION AND CONTROL SCHEMATICS

- a. See revised sheet.
- b. Revise "AHU-2 Control Schematic" section E as indicated on attached Drawing.

17. SHEET M701 – MECHANICAL SCHEDULES

- a. See revised sheet.
- b. Revise "Hot Water Cabinet Heater/Propeller Unit Heater Schedule" as indicated on attached Drawing.
- c. Revise "Grille/Register and Diffuser Schedule" for RG-3, SG-2, and SG-3 as indicated on attached Drawing.
- d. Revise "Round Floor Diffusers" type as indicated on attached Drawing.

18. SHEET P200 - UNDERFLOOR PLUMBING PLAN

- a. See revised sheet.
- b. Add trap primers for floor drains as indicated on attached Drawing.

19. SHEET P201 – FIRST FLOOR PLUMBING PLAN

- a. See revised sheet.
- b. Revise sheet to include shut off valve before trap primer as indicated on attached Drawing.

20. SHEET E001 - ELECTRICAL SYMBOLS AND ABBREVIATIONS

- a. See revised sheet.
- b. Updated ceiling exit signs on Electrical Symbol Legend as indicated on attached Drawing.

21. SHEET E201 - FIRST FLOOR LIGHTING PLAN

- a. See revised sheet.
- b. Updated sheet to include additional exit signs as indicated on attached Drawing.

22. SHEET E301 - FIRST FLOOR POWER PLAN

- a. See revised sheet.
- b. Under Plan Note #55: Delete words: "ADD ALTERNATE BID" at beginning of plan note.

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Work indicated is part of Base Bid.

c. Under Plan Note #56: Delete words: "ADD ALTERNATE BID" at beginning of plan note. Work indicated is part of Base Bid.

23. SHEET E801 – LUMINAIRE SCHEDULE

- a. See revised sheet.
- b. Updated lumen and wattages and manufacturers on the Luminaire (Light Fixture) Schedule as indicated on attached Drawing.

PART 4 – ATTACHMENTS

- 1. SECTION 033000 CAST-IN-PLACE CONCRETE
- 2. SHEET A-001 GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
- 3. SHEET A-002 INT. PARTITION TYPES, STAND. PARTITION DETAILS, FINISH SCHEDULE
- 4. SHEET A-101 FIRST FLOOR PLAN
- 5. SHEET A-102 CLERESTORY PLAN LOWER ROOF PLAN
- 6. SHEET A-105 UPPER ROOF PLAN
- 7. SHEET A-131 FIRST FLOOR REFLECTED CEILING PLAN
- 8. SHEET A-351 EXTERIOR DETAILS
- 9. SHEET A-352 EXTERIOR DETAILS
- 10. SHEET A-402 ENLARGED PLANS RESTROOMS
- 11. SHEET A-502 INTERIOR ELEVATIONS
- 12. SHEET A-521 INTERIOR DETAILS
- 13. SHEET M201 FIRST FLOOR MECHANICAL PLAN
- 14. SHEET M401 ENLARGED MECHANICAL ROOM PLAN
- 15. SHEET M503 MECHANICAL DETAILS
- 16. SHEET M602 HVAC INSTRUMENTATION AND CONTROL SCHEMATICS
- 17. SHEET M603 HVAC INSTRUMENTATION AND CONTROL SCHEMATICS
- 18. SHEET M701 MECHANICAL SCHEDULES
- 19. SHEET P200 UNDERFLOOR PLUMBING PLAN
- 20. SHEET P201 FIRST FLOOR PLUMBING PLAN
- 21. SHEET E001 ELECTRICAL SYMBOLS AND ABBREVIATIONS
- 22. SHEET E201 FIRST FLOOR LIGHTING PLAN
- 23. SHEET E801 LUMINAIRE SCHEDULE

END OF ADDENDUM 03

SECTION 033000 – CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2 SUMMARY
 - A. Section includes cast-in-place concrete, including formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.
- 1.3 ACTION SUBMITTALS
 - A. Product Data: For each type of product indicated.
 - B. Design Mixtures: For each concrete mixture.
 - C. Steel Reinforcement Shop Drawings: Placing drawings that detail fabrication, bending, and placement.
 - D. Sustainable Design Submittals:
 - 1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
 - 2. Environmental Product Declaration (EPD): For each product.

1.4 INFORMATIONAL SUBMITTALS

- A. Material certificates.
- B. Material test reports.

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1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C 94 requirements for production facilities and equipment.
 - 1. Manufacturer certified according to NRMCA's "Certification of Ready Mixed Concrete Production Facilities."
- B. Testing Agency Qualifications: An independent agency qualified according to ASTM C 1077 and ASTM E 329 for testing indicated.
- C. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:
 - 1. ACI 301, "Specifications for Structural Concrete," Sections 1 through 5.
 - 2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."
- D. Preinstallation Conference: Conduct conference at Project site, at least two weeks prior to concrete placement.
 - 1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with cast-in-place concrete to attend, including the following:
 - a. Contractor's superintendent.
 - b. Independent testing agency responsible for concrete design mixtures.
 - c. Ready-mix concrete manufacturer.
 - d. Concrete subcontractor.
 - e. Finish flooring subcontractor.
 - 2. Review testing and inspecting agency procedures for field quality control, concrete finishes and finishing, cold- and hot-weather concreting procedures, curing procedures, construction contraction and isolation joints, and joint-filler strips, forms and form removal limitations, vapor-retarder installation, anchor rod and anchorage device installation tolerances, steel reinforcement installation, floor and slab flatness and levelness measurement, concrete repair procedures, and concrete protection.

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PART 2 - PRODUCTS

2.1 FORM-FACING MATERIALS

- A. Smooth-Formed Finished Concrete: Form-facing panels that will provide continuous, true, and smooth concrete surfaces. Furnish in largest practicable sizes to minimize number of joints.
- B. Rough-Formed Finished Concrete: Plywood, lumber, metal, or another approved material. Provide lumber dressed on at least two edges and one side for tight fit.
- 2.2 STEEL REINFORCEMENT
 - A. Reinforcing Bars: ASTM A 615, Grade 60, deformed.
 - B. Plain-Steel Welded Wire Reinforcement: ASTM A 185 plain, fabricated from as-drawn steel wire into flat sheets.
 - C. Bar Supports: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice.

2.3 CONCRETE MATERIALS

- A. Cementitious Material: Use the following cementitious materials, of the same type, brand, and source, throughout Project:
 - Portland Cement: ASTM C 150, Type I, gray. Supplement with the following:
 a. Fly Ash: ASTM C 618, Class C.
 - 2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.
- B. Water: ASTM C 94 and potable.
- 2.4 ADMIXTURES
 - A. Air-Entraining Admixture: ASTM C 260.
 - B. Chemical Admixtures: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding

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those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.

- 1. Water-Reducing Admixture: ASTM C 494, Type A.
- 2. High-Range, Water-Reducing Admixture: ASTM C 494, Type F.
- 3. Plasticizing and Retarding Admixture: ASTM C 1017 Type II.

2.5 FIBER REINFORCEMENT

A. Synthetic Micro-Fiber: fibrillated polypropylene micro-fibers engineered and designed for use in concrete, complying with ASTM C 1116, Type III. Do not use fiber reinforcing in slabs scheduled to receive polished concrete finish.

2.6 CURING MATERIALS

- A. Evaporation Retarder: Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
- B. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- C. Moisture-Retaining Cover: ASTM C 171, polyethylene film or white burlap-polyethylene sheet.
- D. Water: Potable.
- E. Curing Compounds for Other Concrete (excluding substrates for resilient or epoxy flooring):
 - 1. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class B, dissipating.

2.7 RELATED MATERIALS

- A. Expansion- and Isolation-Joint-Filler Strips.
- 2.8 CONCRETE MIXTURES
 - A. Prepare design mixtures for each type and strength of concrete, proportioned on the basis of laboratory trial mixture or field test data, or both, according to ACI 301.

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Lynch, Harrison & Brumleve

- B. Admixtures at Other Concrete: Use admixtures according to manufacturer's written instructions.
 - 1. Use water-reducing high-range water-reducing or plasticizing admixture in concrete, as required, for placement and workability.
 - 2. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.
 - 3. Use water-reducing admixture in pumped concrete, concrete required to be watertight, and concrete with a water-cementitious materials ratio below 0.50.
- C. Proportion normal-weight concrete mixture as follows:
 - 1. Minimum Compressive Strength at 28 Days: As indicated on Drawings.
 - 2. Maximum Water-Cementitious Materials Ratio: As indicated on Drawings.
 - 3. Slump Limit: As indicated on Drawings.
 - 4. Air Content: As indicated on Drawings.
 - 5. Synthetic Micro-Fiber: Uniformly disperse in concrete mixture at manufacturer's recommended rate, but not less than 1.5 lb/cu. yd.

2.9 FABRICATING REINFORCEMENT

- A. Fabricate steel reinforcement according to CRSI's "Manual of Standard Practice."
- 2.10 CONCRETE MIXING
 - A. Ready-Mixed Concrete: Measure, batch, mix, and deliver concrete according to ASTM C 94 and ASTM C 1116 and furnish batch ticket information.
 - 1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.

2.11 WATERSTOPS

- A. Self-Expanding Butyl Strip Waterstops: Manufactured rectangular or trapezoidal strip, butyl rubber with sodium bentonite or other hydrophilic polymers, for adhesive bonding to concrete, 3/4 by 1 inch.
 - 1. Product: CETCO; Volclay Waterstop-RX.

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2.12 VAPOR RETARDERS

A. Sheet Vapor Retarder: ASTM E 1745, Class A. Include manufacturer's recommended adhesive or pressure-sensitive tape. Minimum 10-mil thickness. Maximum 0.036 perms.

PART 3 - EXECUTION

3.1 FORMWORK

- A. Design, erect, shore, brace, and maintain formwork, according to ACI 301, to support vertical, lateral, static, and dynamic loads, and construction loads that might be applied, until structure can support such loads.
- B. Construct formwork so concrete members and structures are of size, shape, alignment, elevation, and position indicated, within tolerance limits of ACI 117.
- C. Chamfer exterior corners and edges of permanently exposed concrete where exposed.

3.2 EMBEDDED ITEMS

A. Place and secure anchorage devices and other embedded items required for adjoining work that is attached to or supported by cast-in-place concrete. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.3 STEEL REINFORCEMENT

- A. General: Comply with CRSI's "Manual of Standard Practice" for placing reinforcement.
 - 1. Do not cut or puncture vapor retarder. Repair damage and reseal vapor retarder before placing concrete.

3.4 JOINTS

- A. General: Construct joints true to line with faces perpendicular to surface plane of concrete.
- B. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.

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- C. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
 - 1. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch- wide joints into concrete when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
- D. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.

3.5 CONCRETE PLACEMENT

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
- B. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect.
- C. Schedule placement to minimize exposure to wind and hot sun before curing materials are applied.
- D. Avoid placing concrete if rain, snow, or frost is forecast within 24 hours. Protect fresh concrete from moisture and freezing.
- E. Schedule delivery of concrete to provide consistent mix times from batching until discharge. Mix times shall meet manufacturer's written recommendations.
- F. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.
 - 1. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
- G. Cold-Weather Placement: Comply with ACI 306.1.
- H. Hot-Weather Placement: Comply with ACI 301.

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3.6 FINISHING FORMED SURFACES

- A. Rough-Formed Finish: As-cast concrete texture imparted by form-facing material with tie holes and defects repaired and patched. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 - 1. Apply to concrete surfaces not exposed to public view.
- B. Smooth-Formed Finish: As-cast concrete texture imparted by form-facing material, arranged in an orderly and symmetrical manner with a minimum of seams. Repair and patch tie holes and defects. Remove fins and other projections that exceed specified limits on formed-surface irregularities.
 - 1. Apply to concrete surfaces exposed to public view.
- C. Rubbed Finish: Apply the following to smooth-formed finished as-cast concrete where indicated:
 - 1. Grout-Cleaned Finish: Wet concrete surfaces and apply grout of a consistency of thick paint to coat surfaces and fill small holes. Mix one part portland cement to one and one-half parts fine sand with a 1:1 mixture of bonding admixture and water. Add white portland cement in amounts determined by trial patches so color of dry grout will match adjacent surfaces. Scrub grout into voids and remove excess grout. When grout whitens, rub surface with clean burlap and keep surface damp by fog spray for at least 36 hours.
- D. Related Unformed Surfaces: At tops of walls, horizontal offsets, and similar unformed surfaces adjacent to formed surfaces, strike off smooth and finish with a texture matching adjacent formed surfaces. Continue final surface treatment of formed surfaces uniformly across adjacent unformed surfaces unless otherwise indicated.

3.7 FINISHING FLOORS AND SLABS

- A. General: Comply with ACI 302.1R recommendations for screeding, restraightening, and finishing operations for concrete surfaces. Do not wet concrete surfaces.
- B. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth, granular texture.
 - 1. Apply float finish to surfaces to receive trowel finish and non-slip broom finishes.
- C. Float Finish: Consolidate surface with power-driven floats or by hand floating if area is small or inaccessible to power driven floats. Restraighten, cut down high spots, and fill

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low spots. Repeat float passes and restraightening until surface is left with a uniform, smooth granular texture.

- 1. Apply float finish to surfaces indicated, to surfaces to receive trowel finish, and to floor and slab surfaces to be covered with fluid-applied or sheet waterproofing, built-up or membrane roofing, or sand-bed terrazzo.
- D. Trowel Finish: After applying float finish, apply first trowel finish and consolidate concrete by hand or power-driven trowel. Continue troweling passes and restraighten until surface is free of trowel marks and uniform in texture and appearance. Grind smooth any surface defects that would telegraph through applied coatings or floor coverings.
 - 1. Apply a trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin film-finish coating system.
 - a. Finish surfaces to the following tolerances, measured within 24 hours according to ASTM E 1155 for a randomly trafficked floor surface:
 - Specified overall values of flatness, F(F) 35; and levelness, F(L) 25; with minimum local values of flatness, F(F) 24; and levelness F(L) 17; for slabs-on-grade.
 - c. Specified overall values of flatness, F(F) 30; and levelness, F(L) 20; with minimum local values of flatness, F(F) 24; and levelness, F(L) 15; for suspended slabs.
 - 2. Broom Finish: Apply a broom finish to exterior concrete stage floor, platforms, steps, ramps, and elsewhere as indicated. Coordinate finish of exterior walks, stoops, pavements, etc. with the Civil Drawings and Specifications.

3.8 CONCRETE PROTECTING AND CURING

- A. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
- B. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- C. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
 - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days.

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- 2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moistureretaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
- 3. Curing Compounds: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.

3.9 CONCRETE SURFACE REPAIRS

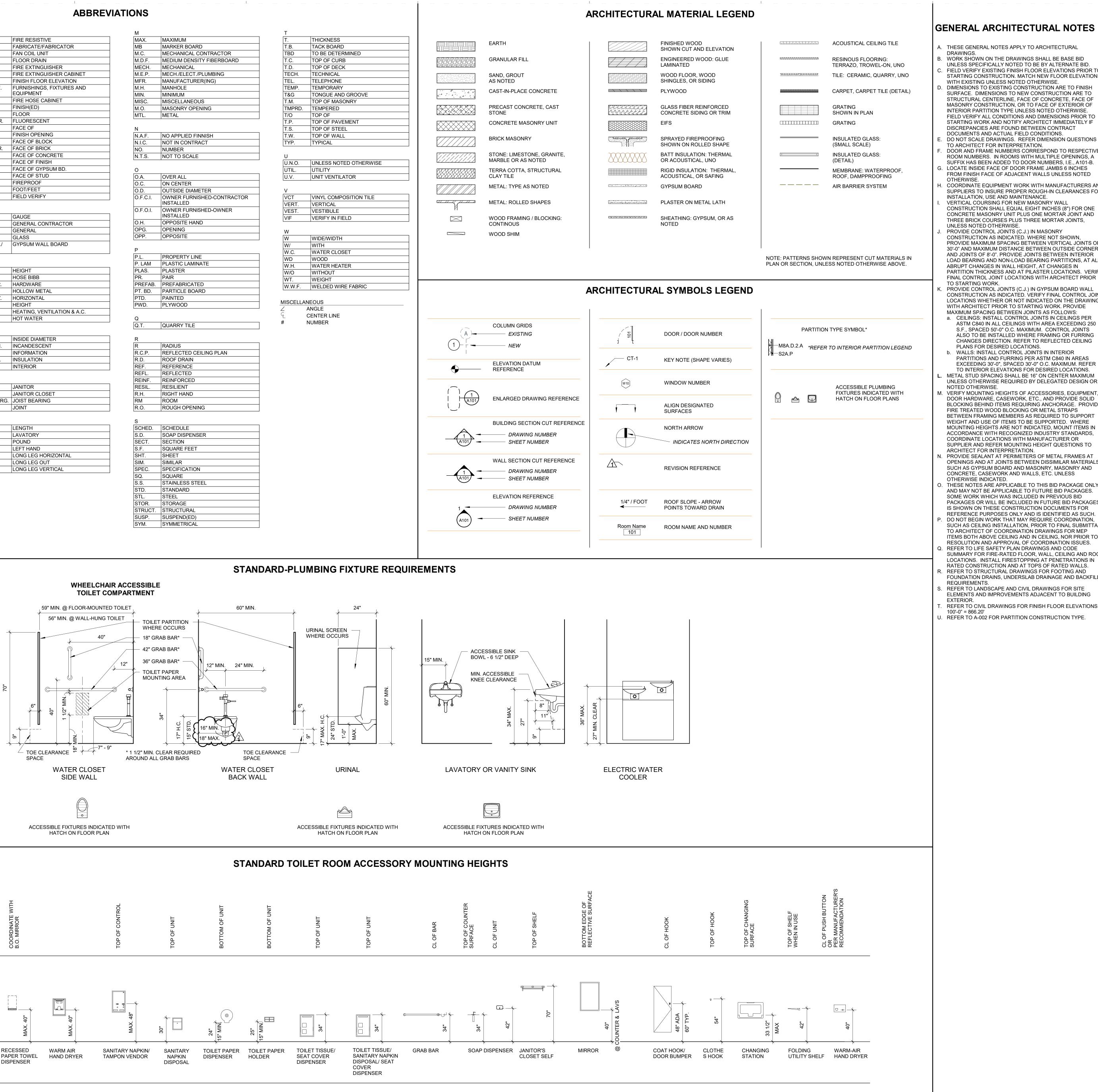
- A. Defective Concrete: Repair and patch defective areas when approved by Architect. Remove and replace concrete that cannot be repaired and patched to Architect's approval.
- 3.10 FIELD QUALITY CONTROL
 - A. Testing and Inspecting: Owner will engage a qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.

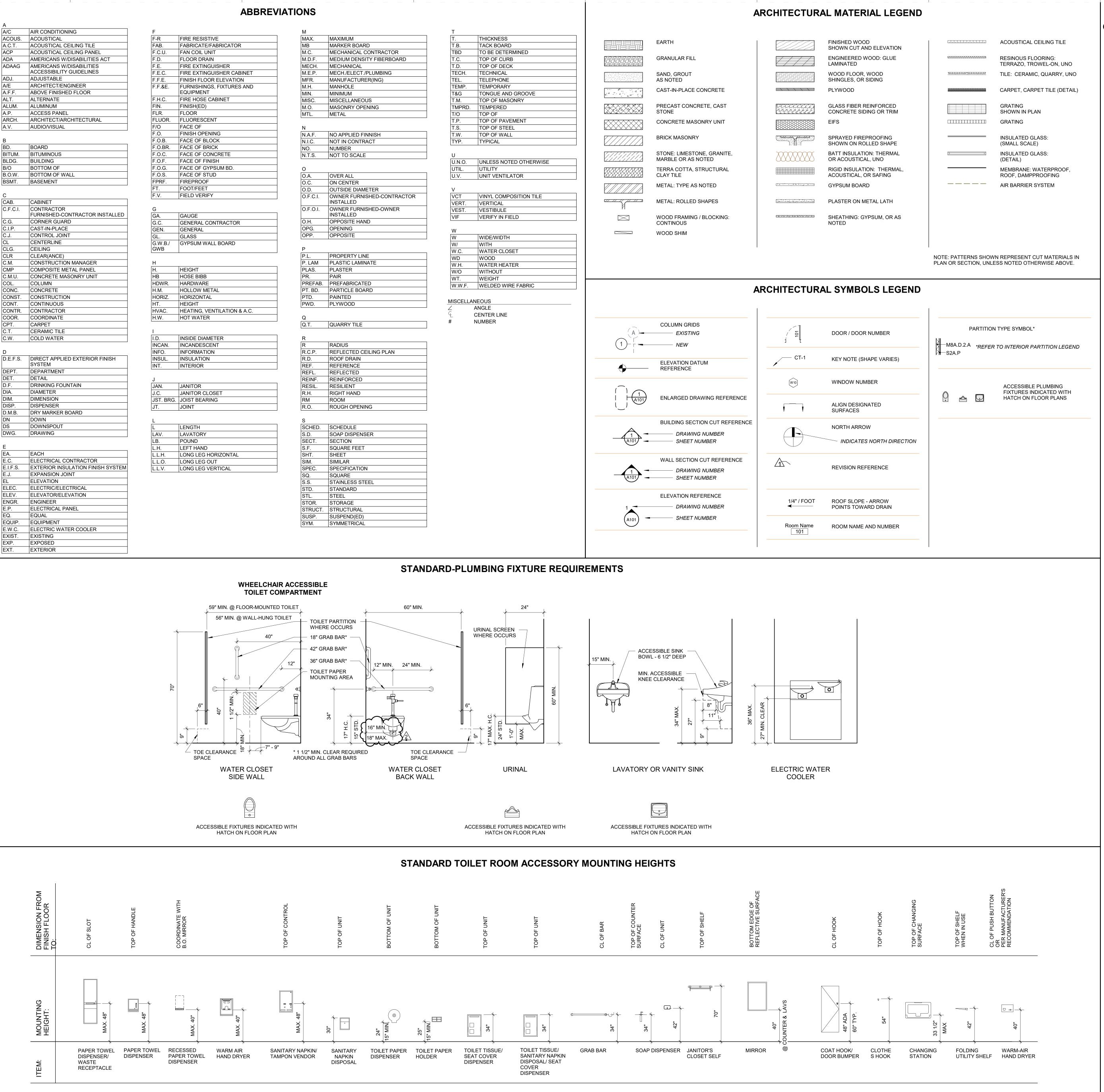
END OF SECTION 033000

100110	AIR CONDITIONING
ACOUS.	ACOUSTICAL
ACOUS. A.C.T.	ACOUSTICAL CEILING TILE
ACP	ACOUSTICAL CEILING PANEL
ADA	AMERICANS W/DISABILITIES ACT
ADAAG	AMERICANS W/DISABILITIES
	ACCESSIBILITY GUIDELINES
ADJ.	ADJUSTABLE
A/E	ARCHITECT/ENGINEER
A.F.F.	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ALUM.	ALUMINUM
A.P.	ACCESS PANEL
ARCH.	ARCHITECT/ARCHITECTURAL
A.V.	AUDIO/VISUAL
В	
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
B/O	BOTTOM OF
B.O.W.	BOTTOM OF WALL
BSMT.	BASEMENT
_	
С	
CAB.	CABINET
C.F.C.I.	CONTRACTOR
	FURNISHED-CONTRACTOR INSTALLED
C.G.	CORNER GUARD
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CL	CENTERLINE
CLG.	CEILING
CLR	CLEAR(ANCE)
C.M.	CONSTRUCTION MANAGER
CMP	COMPOSITE METAL PANEL
C.M.U.	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
	COORDINATE
COOR.	CARPET
CPT.	
	CERAMIC TILE
CPT.	CERAMIC TILE COLD WATER
CPT. C.T.	
CPT. C.T. C.W.	
CPT. C.T. C.W.	COLD WATER
CPT. C.T. C.W.	COLD WATER DIRECT APPLIED EXTERIOR FINISH
CPT. C.T. C.W.	COLD WATER
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CPT. C.T. C.W. D D.E.F.S. DEPT. DET.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL
CPT. C.T. C.W. D D.E.F.S. DEPT. DET. D.F.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN
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CPT. C.T. C.W. D D.E.F.S. DEPT. DET. D.F. DIA. DIM. DISP.	COLD WATERDIRECT APPLIED EXTERIOR FINISH SYSTEMDEPARTMENTDETAILDRINKING FOUNTAINDIAMETERDIMENSIONDISPENSER
CPT. C.T. C.W. D D.E.F.S. DEPT. DET. DET. DIA. DIM. DISP. D.M.B.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DINENSION DISPENSER DRY MARKER BOARD
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CPT. C.T. C.W. D D.E.F.S. DEPT. DET. DET. DIA. DIM. DISP. DIM. DISP. D.M.B. DN DS DWG. E EA. E.C. E.I.F.S. EL ELEC.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELECATION ELECTRIC/ELECTRICAL
CPT. C.T. C.W. D D.E.F.S. DEPT. DET. DIA. DIM. DISP. DIM. DISP. DIM. DISP. CON ELEC. ELEC. ELEC. ELEV.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELEVATION ELECTRIC/ELECTRICAL ELEVATOR/ELEVATION
CPT. C.T. C.W. D D.E.F.S. DEPT. DET. DET. DIA. DIM. DISP. DIM. DISP. D.M.B. DN DS DWG. E EA. E.C. E.I.F.S. EL ELEC.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELECTRIC/ELECTRICAL ELEVATION ELECTRIC/ELECTRICAL ELEVATOR/ELEVATION ENGINEER
CPT. C.T. C.W. D D.E.F.S. DEPT. DET. DIA. DIM. DISP. DIM. DISP. DIM. DISP. CON ELEC. ELEC. ELEC. ELEV.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELEVATION ELECTRIC/ELECTRICAL ELEVATOR/ELEVATION
CPT. C.T. C.W. D D.E.F.S. DEPT. DET. DIA. DISP. DIM. DISP. D.M.B. DN DS DWG. E EA. E.C. E.I.F.S. EL ELEC. ELEV. ENGR. E.P.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELEVATION ELECTRIC/ELECTRICAL ELEVATOR/ELEVATION ENGINEER ELECTRICAL PANEL
CPT. C.T. C.W. D.E.F.S. DEPT. DET. DET. DIA. DIM. DISP. D.M.B. DN DS DWG. E EA. E.C. E.I.F.S. E.J. EL ELEC. ELEV. ENGR. E.P. EQ.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELECATION ELECTRIC/ELECTRICAL ELEVATION ENGINEER ELECTRICAL PANEL EQUAL
CPT. C.T. C.W. D.E.F.S. DEPT. DET. DIA. DISP. DIM. DISP. DIM. DISP. DIM. E. E. E. E. E. E. E. E. E. E	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELECTRIC/ELECTRICAL ELEVATION ELECTRICAL PANEL EQUIPMENT
CPT. C.T. C.W. D.E.F.S. DEPT. DET. DET. DIA. DIM. DISP. D.M.B. DN DS DWG. E EA. E.C. E.I.F.S. E.J. EL ELEC. ELEV. ENGR. E.P. EQ.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELEVATION ELECTRIC/ELECTRICAL ELEVATOR/ELEVATION ENGINEER EQUAL
CPT. C.T. C.W. D.E.F.S. DEPT. DET. DIA. DISP. DIM. DISP. DIM. DISP. DIM. E. E. E. E. E. E. E. E. E. E	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELECTRIC/ELECTRICAL ELEVATION ELECTRICAL PANEL EQUIPMENT
CPT. C.T. C.W. D.E.F.S. DEPT. DET. DIA. DISP. DIM. DISP. D.M.B. DN DS DWG. E EA. E.C. E.I.F.S. E.J. ELEC. ELEV. ELEV. ENGR. E.P. EQUIP. E.W.C.	COLD WATER DIRECT APPLIED EXTERIOR FINISH SYSTEM DEPARTMENT DETAIL DRINKING FOUNTAIN DIAMETER DIMENSION DISPENSER DRY MARKER BOARD DOWN DOWNSPOUT DRAWING EACH ELECTRICAL CONTRACTOR EXPANSION JOINT ELECTRIC/ELECTRICAL ELEVATION ENGINEER ELECTRICAL PANEL EQUIPMENT ELECTRIC WATER COOLER

EXP.

_		M
R		MA
AB.		MB
C.U.		M.(
.D. .E.	FLOOR DRAIN FIRE EXTINGUISHER	ME
	FIRE EXTINGUISHER	ME M.E
.E.C. .F.E.	FINISH FLOOR ELEVATION	MF
F.&E.	FURNISHINGS, FIXTURES AND	M.F
Γ.αΕ.	EQUIPMENT	MIN MIN
H.C.	FIRE HOSE CABINET	MI
N.	FINISH(ED)	M.C
LR.	FLOOR	MT
LUOR.	FLUORESCENT	
0	FACE OF	N
.0.	FINISH OPENING	N.A
О.В.	FACE OF BLOCK	N.I
O.BR.	FACE OF BRICK	
O.C.	FACE OF CONCRETE	N.1
0.F.	FACE OF FINISH	
0.G.	FACE OF GYPSUM BD.	o
.O.S.	FACE OF STUD	
PRF.	FIREPROOF	0.0
Т.	FOOT/FEET	0.0
V.	FIELD VERIFY	0.E
		[0.1
		O.F
Α.	GAUGE	
.C.	GENERAL CONTRACTOR	0.1
EN.	GENERAL	OP
L.	GLASS	OP
 .W.B./	GYPSUM WALL BOARD	
WB		Р
		P.L P.I
	HEIGHT	PL
B	HOSE BIBB	PR
DWR.	HARDWARE	PR
.M.	HOLLOW METAL	PR PR
	HORIZONTAL	
oriz. T.	HEIGHT	PT PW
VAC.		
	HEATING, VENTILATION & A.C.	
.W.	HOT WATER	Q.1
		Q.
D.	INSIDE DIAMETER	R
J. ICAN.	INCANDESCENT	R
IFO.	INFORMATION	R.0
ISUL.	INSULATION	R.0
	INTERIOR	
IT.	INTERIOR	
		RE
		RE
AN.	JANITOR	RE
C.	JANITOR CLOSET	R.H
ST. BRG.		RM
Г.	JOINT	R.0
		S
	LENGTH	SC
AV.	LAVATORY	S.E
3.	POUND	SE
H.	LEFT HAND	S.F
L.H.	LONG LEG HORIZONTAL	SH
L.O.	LONG LEG OUT	SIN
L.V.	LONG LEG VERTICAL	SP
		SQ
		S.5
		ST
		ST





DISCREPANCIES ARE FOUND BETWEEN CONTRACT DOCUMENTS AND ACTUAL FIELD CONDITIONS. DO NOT SCALE DRAWINGS. REFER DIMENSION QUESTIONS TO ARCHITECT FOR INTERPRETATION. DOOR AND FRAME NUMBERS CORRESPOND TO RESPECTIVE ROOM NUMBERS. IN ROOMS WITH MULTIPLE OPENINGS, A SUFFIX HAS BEEN ADDED TO DOOR NUMBERS, I.E., A101-B. 6. LOCATE INSIDE FACE OF DOOR FRAME JAMBS 6 INCHES FROM FINISH FACE OF ADJACENT WALLS UNLESS NOTED OTHERWISE. . COORDINATE EQUIPMENT WORK WITH MANUFACTURERS AND SUPPLIERS TO INSURE PROPER ROUGH-IN CLEARANCES FOR INSTALLATION, USE AND MAINTENANCE. VERTICAL COURSING FOR NEW MASONRY WALL CONSTRUCTION SHALL EQUAL EIGHT INCHES (8") FOR ONE CONCRETE MASONRY UNIT PLUS ONE MORTAR JOINT AND THREE BRICK COURSES PLUS THREE MORTAR JOINTS, UNLESS NOTED OTHERWISE. PROVIDE CONTROL JOINTS (C.J.) IN MASONRY CONSTRUCTION AS INDICATED. WHERE NOT SHOWN, PROVIDE MAXIMUM SPACING BETWEEN VERTICAL JOINTS OF 30'-0" AND MAXIMUM DISTANCE BETWEEN OUTSIDE CORNERS AND JOINTS OF 8'-0". PROVIDE JOINTS BETWEEN INTERIOR LOAD BEARING AND NON-LOAD BEARING PARTITIONS, AT ALL ABRUPT CHANGES IN WALL HEIGHT, AT CHANGES IN PARTITION THICKNESS AND AT PILASTER LOCATIONS. VERIFY FINAL CONTROL JOINT LOCATIONS WITH ARCHITECT PRIOR TO STARTING WORK. PROVIDE CONTROL JOINTS (C.J.) IN GYPSUM BOARD WALL CONSTRUCTION AS INDICATED. VERIFY FINAL CONTROL JOINT LOCATIONS WHETHER OR NOT INDICATED ON THE DRAWINGS WITH ARCHITECT PRIOR TO STARTING WORK. PROVIDE MAXIMUM SPACING BETWEEN JOINTS AS FOLLOWS: a. CEILINGS: INSTALL CONTROL JOINTS IN CEILINGS PER ASTM C840 IN ALL CEILINGS WITH AREA EXCEEDING 250 S.F., SPACED 50'-0" O.C. MAXIMUM. CONTROL JOINTS ALSO TO BE INSTALLED WHERE FRAMING OR FURRING CHANGES DIRECTION. REFER TO REFLECTED CEILING PLANS FOR DESIRED LOCATIONS. b. WALLS: INSTALL CONTROL JOINTS IN INTERIOR PARTITIONS AND FURRING PER ASTM C840 IN AREAS EXCEEDING 30'-0", SPACED 30'-0" O.C. MAXIMUM. REFER TO INTERIOR ELEVATIONS FOR DESIRED LOCATIONS. METAL STUD SPACING SHALL BE 16" ON CENTER MAXIMUM UNLESS OTHERWISE REQUIRED BY DELEGATED DESIGN OR NOTED OTHERWISE. I. VERIFY MOUNTING HEIGHTS OF ACCESSORIES, EQUIPMENT, DOOR HARDWARE, CASEWORK, ETC., AND PROVIDE SOLID BLOCKING BEHIND ITEMS REQUIRING ANCHORAGE. PROVIDE FIRE TREATED WOOD BLOCKING OR METAL STRAPS BETWEEN FRAMING MEMBERS AS REQUIRED TO SUPPORT

A. THESE GENERAL NOTES APPLY TO ARCHITECTURAL

WITH EXISTING UNLESS NOTED OTHERWISE.

. WORK SHOWN ON THE DRAWINGS SHALL BE BASE BID

UNLESS SPECIFICALLY NOTED TO BE BY ALTERNATE BID.

FIELD VERIFY EXISTING FINISH FLOOR ELEVATIONS PRIOR TO

STARTING CONSTRUCTION. MATCH NEW FLOOR ELEVATIONS

DIMENSIONS TO EXISTING CONSTRUCTION ARE TO FINISH

SURFACE. DIMENSIONS TO NEW CONSTRUCTION ARE TO

STRUCTURAL CENTERLINE, FACE OF CONCRETE, FACE OF

MASONRY CONSTRUCTION, OR TO FACE OF EXTERIOR OF

FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO

STARTING WORK AND NOTIFY ARCHITECT IMMEDIATELY IF

INTERIOR PARTITION TYPE UNLESS NOTED OTHERWISE.

DRAWINGS.

- WEIGHT AND USE OF ITEMS TO BE SUPPORTED. WHERE MOUNTING HEIGHTS ARE NOT INDICATED. MOUNT ITEMS IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS, COORDINATE LOCATIONS WITH MANUFACTURER OR SUPPLIER AND REFER MOUNTING HEIGHT QUESTIONS TO ARCHITECT FOR INTERPRETATION. N. PROVIDE SEALANT AT PERIMETERS OF METAL FRAMES AT OPENINGS AND AT JOINTS BETWEEN DISSIMILAR MATERIALS SUCH AS GYPSUM BOARD AND MASONRY, MASONRY AND
- CONCRETE, CASEWORK AND WALLS, ETC. UNLESS OTHERWISE INDICATED. THESE NOTES ARE APPLICABLE TO THIS BID PACKAGE ONLY AND MAY NOT BE APPLICABLE TO FUTURE BID PACKAGES. SOME WORK WHICH WAS INCLUDED IN PREVIOUS BID PACKAGES OR WILL BE INCLUDED IN FUTURE BID PACKAGES IS SHOWN ON THESE CONSTRUCTION DOCUMENTS FOR REFERENCE PURPOSES ONLY AND IS IDENTIFIED AS SUCH.
- DO NOT BEGIN WORK THAT MAY REQUIRE COORDINATION. SUCH AS CEILING INSTALLATION, PRIOR TO FINAL SUBMITTAL TO ARCHITECT OF COORDINATION DRAWINGS FOR MEP ITEMS BOTH ABOVE CEILING AND IN CEILING, NOR PRIOR TO RESOLUTION AND APPROVAL OF COORDINATION ISSUES. . REFER TO LIFE SAFETY PLAN DRAWINGS AND CODE SUMMARY FOR FIRE-RATED FLOOR, WALL, CEILING AND ROOF
- LOCATIONS, INSTALL FIRESTOPPING AT PENETRATIONS IN RATED CONSTRUCTION AND AT TOPS OF RATED WALLS. REFER TO STRUCTURAL DRAWINGS FOR FOOTING AND FOUNDATION DRAINS, UNDERSLAB DRAINAGE AND BACKFILI REQUIREMENTS. REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR SITE
- ELEMENTS AND IMPROVEMENTS ADJACENT TO BUILDING EXTERIOR REFER TO CIVIL DRAWINGS FOR FINISH FLOOR ELEVATIONS
- 100'-0" = 866.20' J. REFER TO A-002 FOR PARTITION CONSTRUCTION TYPE.

IndyPL Fort Ben Branch Library 9330 E. 56th Street Indianapolis, IN 46216

The Indianapolis Public Library 2450 North Meridian Street Indianapolis, IN 46208 (317)-275-4100

Architect RATIO 101 South Pennsylvania Street Indianapolis, Indiana 46204 317-633-4040

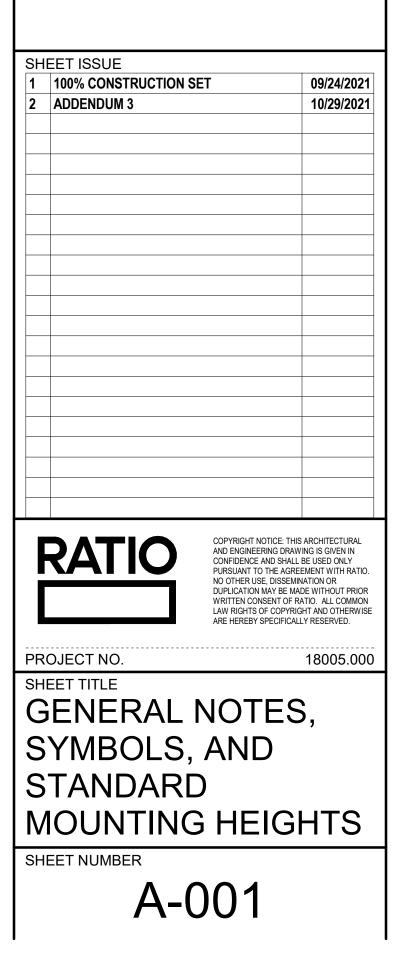
Structural Engineer LYNCH. HARRISON & BRUMLEVE, INC. 550 Virginia Avenue Indianapolis, Indiana 46203

Mechanical / Electrical Engineer LOFTUS ENGINEERING, INC. 201 South Capitol Avenue, Suite 310 Indianapolis, Indiana 46225 (317)-352-5822

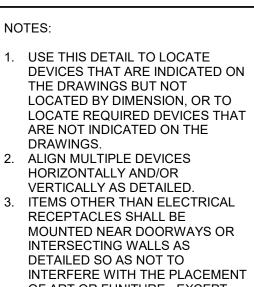
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Acoustical / AV Consultant DESIGN 27 1650 E. 49th Street Indianapolis, Indiana 46205 (317)-536-8000





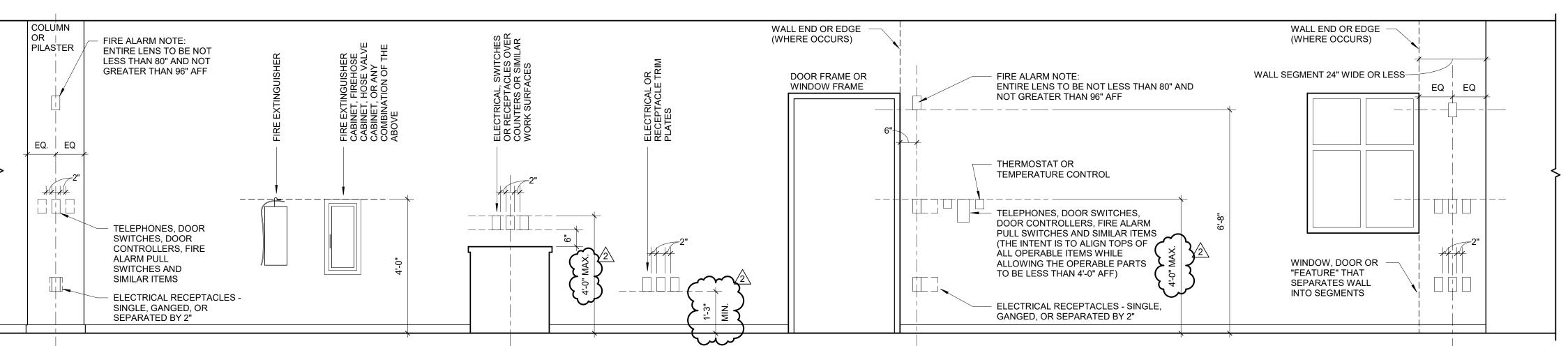
					CT-01-			
FINISH TYPE	TAG	MANUFACTURER	STYLE	SIZE	PRODUCT NUMBER	FINISH DESCRIPTION COLOR	INSTALL NOTES	COMMENTS
WALL ALUMINUM DRYWALL TRII	M ADT-01	FRY REGLET	WALL COVER TRIM OUTSIDE CORNER	7/32" EXPOSED EDGE; 1-3/4" LEG TO TAPE AND JOINT	WCTOSC	PROVIDE ARCHITECT FULL RANGE OF COLORS FOR SELECTION	INSTALL INSTALL DRYWALL TRIM FROM TOP OF BASE TO UNDERSIDE OF CEILING. REF TO RCP FOR HEIGHT. REFER TO DETAIL C6/A-522	DIGITAL WALL COVERING CORNER CONDITIONS
LUMINUM DRYWALL TRI	M ADT-02	FRY REGLET	WALL COVER TRIM TERMINATION	7/32" EXPOSED EDGE; 1-3/4" LEG TO TAPE AND JOINT	WCTBT	PROVIDE ARCHITECT FULL RANGE OF COLORS FOR SELECTION		DIGITAL WALL COVERING EDGE CONDITIONS
COUSTICAL TREATMENT	T AT-01	ARMSTRONG	TECTUM PANEL ART WALLS	SHAPES: 7-1/2" HEXAGON	1111	CUSTOM COLORS (12 COLORS TOTAL) REFER TO ELEVATION FOR LOCATIONS	MOUNT HEXGON SHAPES TO 3/4" PAINTED PLYWOOD	
ORNER GUARD	CG-01	CONSTRUCTION SPECIALTIES	APPLIED CHANNEL/END WALL GUARD	2" LEG, 1/4" RADIUS, PROVIDE FULL HEIGHT AFF TO CEILING	SSM-25N (PVC-FREE)	933 MISSION WHITE	INSTALL ABOVE BASE UP TO INSTALL TO UNDERSIDE OF CEILING. REF RCP FOR HEIGHT	
CORNER GUARD	CG-02	CONSTRUCTION SPECIALTIES	APPLIED CHANNEL/END WALL GUARD	2" LEG, 1/4" RADIUS, PROVIDE FULL HEIGHT AFF TO CEILING	(PVC-FREE)	1526 BALTIC BLUE	INSTALL ABOVE BASE UP TO INSTALL TO UNDERSIDE OF CEILING. REF RCP FOR HEIGHT	
CORNER GUARD	CG-03	CONSTRUCTION SPECIALTIES	END WALL APPLIED CORNER GUARD	2" LEG, 1/4" RADIUS, PROVIDE FULL HEIGHT AFF TO CEILING	SSM-25AN (PVC-FREE)	933 MISSION WHITE	INSTALL ABOVE BASE UP TO INSTALL TO UNDERSIDE OF CEILING. REF RCP FOR HEIGHT	
PORCELAIN TILE	CT-01	DALTILE	REMEDY	3/8" x 2-3/8" x 9-1/2" (ACTUAL SIZE: 1.811 x 9.016)	N/A	RANDOM BLEND: 50% HERBAL RD21 & 50% HYDRO RD22	1/16" GROUT JOINT	ALTERNATE AT FIREPLACE WALL
PORCELAIN TILE	CT-02	DALTILE	COLOR WHEEL CLASSIC	5/16" THICK x 4" x 4"	N/A	RANDOM BLEND: 75% DESERT GRAY SEMI-GLOSS & 25% DESERT GRAY MATTE	1/16" GROUT JOINT	ALTERNATE WITHIN RESTROOMS
HIGH PERFORMANCE COATING	HPC-01	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 7008	ALABASTER		WHITE
HIGH PERFORMANCE	HPC-02	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 7504	KEYSTONE GRAY		PUBLIC - WEST PORCH
HIGH PERFORMANCE	HPC-03	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 6457	KIND GREEN		PUBLIC - SOUTH PORCH
PAINT PAINT	PT-01 PT-02	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW 7008 SW 7504	ALABASTER KEYSTONE GRAY		WHITE PUBLIC - WEST PORCH
PAINT	PT-03	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 6457	KIND GREEN		PUBLIC - SOUTH PORCH
PAINT PAINT	PT-04 PT-05	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW 6003 SW 6004	PROPER GRAY MINK		RESTROOMS, FIELD RESTROOMS, ACCENT
PAINT PAINT	PT-06 PT-07	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW 6386 SW 6387	NAPERY COMPATIBLE CREAM		YELLOW 1 (LIGHT) YELLOW 2 (MID)
PAINT	PT-08	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 9023	DAKOTA WHEAT		YELLOW (DARK)
PAINT PAINT	PT-09 PT-10	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW 7612 SW 0041	MOUNTAIN STREAM DARD HUNTER GREEN		STAFF, ACCENT FIREPLACE, ACCENT
PAINT	PT-11	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW-6804	DIGNITY BLUE		ACOUSTIC WALL - BLUE 1
PAINT PAINT	PT-12 PT-13	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW-6803 SW-6801	DANUBE REGALE BLUE		ACOUSTIC WALL - BLUE 2 ACOUSTIC WALL - BLUE 3
	PT-14	SHERWIN WILLIAMS		N/A	SW 6748	GREENS		ACOUSTIC WALL - GREEN 1
PAINT PAINT	PT-15 PT-16	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW 6747 SW 6745	ARGYLE LARK GREEN		ACOUSTIC WALL - GREEN 2 ACOUSTIC WALL - GREEN 3
PAINT PAINT	PT-17 PT-18	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A	SW 6699 SW 6697	CRISPY GOLD NUGGET		ACOUSTIC WALL - YELLOW 1 ACOUSTIC WALL - YELLOW 2
PAINT	PT-18 PT-19	SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW 6695	MIDDDAY		ACOUSTIC WALL - YELLOW 2 ACOUSTIC WALL - YELLOW 3
PAINT PAINT	PT-20 PT-21	SHERWIN WILLIAMS SHERWIN WILLIAMS	PER SPECIFICATION PER SPECIFICATION	N/A N/A	SW 9141 SW 9140	WATERLOO BLUSTERY SKY		ACOUSTIC WALL - GRAY 1 ACOUSTIC WALL - GRAY 2
PAINT	PT-22	SHERWIN WILLIAMS	PER SPECIFICATION	N/A	SW 9140	STARDEW		ACOUSTIC WALL - GRAY 3
PAINT TACK BOARD	PT-23 TB-01	SHERWIN WILLIAMS KOROSEAL	PER SPECIFICATION TAC-WALL	N/A REFER TO DRAWINGS (STANARD SIZE: 48"W)	SW 7048	URBANE BRONZE QUARRY		HOLLOW METAL DOORS AND FRAMES STAFF OFFICE
TACK BOARD	TB-02	KOROSEAL	TAC-WALL	REFER TO DRAWINGS (STANARD SIZE: 48"W)	09	ONYX		HERITAGE WALL
WALL COVERING BASE	WC-01	WOLF GORDON	DIGITAL VINYL WALLCOVERING, CLAIR PVC-FREE SUBSTRATE	REFER TO DRAWINGS (STANARD SIZE: 10'-0"H, REPEAT 24"W	DEPTH OF DOT DDOD632	SOCEAN	INSTALL BELOW BASE; STRAIGHT HANG, STRAIGHT MATCH; UTILIZE ADT-01&02 AT CORNER AND EDGE CONDITIONS, REFER TO DETAIL C6/A-522; WORK WITH WG CUSTOMS LAB FOR FINAL SIZE AND SCALE NEEDS; CONTACT NATALIE KNEZEVIC (WOLF GORDON ACCOUNT EXECUTIVE) AT 502-200-3762 OR NATALIE.KNEZEVIC@WOLFGORDON.COM	
RESILIENT BASE	RB-01	ROPPE	RUBBER ROLLED GOODS	4"H		193 BLACK BROWN	PROVIDE COVE AT CARPET; AND STRAIGHT AT HARD SURFACES	
RESILIENT BASE	RB-02	ROPPE	RUBBER ROLLED GOODS	4"H		175 SLATE	PROVIDE COVE AT CARPET; AND STRAIGHT AT HARD SURFACES	3 IS ACCEPTED.
CARPET TILE (WALK OFF)			STEPPIN OUT - ENTRILLE TILE	24" x 24" x .263"	5T033	STERLING 31557		VESTIBULES CARPET, FIELD (NEUTRAL)
CARPET TILE CARPET TILE	CPT-02 CPT-03	SHAW CONTRACT SHAW CONTRACT	GRADATION GRADATION	.124" x 24" x 24" .124" x 24" x 24"	5T339 5T339	SHADOW 39760 MINT 39327	QUARTER TURN; STACK BOND QUARTER TURN; STACK BOND	CARPET, FIELD (NEUTRAL) CARPET, ACCENT (GREEN)
RESILIENT FLOOR RESILIENT FLOOR	RF-01 RF-02	MOHAWK GROUP MOHAWK GROUP	PIVOT POINT ERT: WOOD PIVOT POINT ERT: TEXTILE	.12" (3MM) THICK; 7" x 48" .12" (3MM) THICK; 7" x 48"	CO113 1446V	LOTUS - 818 RETREAT - 729	GLUE DOWN PER MANUFACTURER RECOMMENDATIONS GLUE DOWN PER MANUFACTURER RECOMMENDATIONS	MID GRAY
RESILIENT FLOOR			RENEW RUBBER TILE, SMOOTH FINISH	1/8" THICK x 19-11/16" x 19-11/16"	978	R122 NATURAL	GLUE DOWN PER MANUFACTURERS RECOMMENDATIONS	BEIGE COLOR
CEILING ACOUSTICAL CEILING	ACT-01	ARMSTRONG	CANYON	24"X24"X3/4"	1494	STANDARD WHITE	EDGE TO BE BEVELED TEGULAR 9/16" GRID; GRID FINISH TO BE	
ACOUSTICAL CEILING	ACT-02	ARMSTRONG	OPTIMA	24"X72"X3/4"	1982	STANDARD WHITE	STANDARD WHITE (WH) EDGE TO BE SQUARE TEGULAR 9/16" GRID; GRID FINISH TO BE	CONTENT 0.75 NRC / 35 CAC / 88% LIGHT REFLECTANCE
WOOD CEILING SYSTEM	WDC-01	ARMSTRONG	WOODWORKS LINEAR NOMINAL 4" MODULE - FSC CERTIFIED	96 x 3-3/4 x 3/4" (with 3/4" reveal)	6640W1-CRW	REDUX WOOD WHEAT (CRW); LOW VOC, 20% SHEEN CLEAR TOP COAT	MATTE BLIZZARD WHITE (ZW) INSTALLATION NOT TO RUN FROM WALL TO WALL- CUT ENDS OF PLANKS TO RECEIVE EDGE BAND EXPOSED ENDS; FIRST AND LAST CARRIERS TO BE NO MORE THAN 4" FROM SIDES OF FLOATING INSTALLATION; PLANKS TO BE STAGGERED, RANDOM JOINTS FOR MONOLITHIC APPEARANCE. APPLY VENEER EDGE BANDING TO MATCH PLANK FACE AT EXPOSED EDGES (DO NOT UTILIZE TRIM AROUND CLOUDS); UTILIZE COMBINATION OF BIOACOUSTIC (BLACK) INFILL PANEL & FACTORY-APPLIED BLACK FLEECE ON EACH PLANK TO COVER REVEALS - REFER TO	ALTERNATE AT SOUTH BAR CEILING
MILLWORK/ CASEWORK								
PLASTIC LAMINATE PLASTIC LAMINATE	PL-01 PL-02	NEVAMAR ABET LAMINATE	TEXTURED TEXTURED	REFER TO DRAWINGS REFER TO DRAWINGS	S7027-T 856	SMOKY WHITE SEI		PUBLIC - WHITE STAFF - BLUE
QUARTZ		DALTILE	ONE QUARTZ SURFACES - MICRO FLECKS	3/4" OR 1-1/4" x 135-7/8" x 78-3/4"	N/A	MORNING FROST NQ30 - POLISHED	ALL CORNERS AND EDGES TO BE MITERED FOR SEAMLESS	
SOLID SURFACE	SSM-01	US SURFACES	LIVING STONE SURFACES	REFER TO DRAWINGS	L721	AVALANCHE	ALL CORNERS AND EDGES TO BE MITERED FOR SEAMLESS DEPTH	
TEXTILE	TEX-01	TBD	TBD	REFER TO DRAWINGS	TBD	TBD	TBD	BANQUETTE BACK UPHOLSTERY; APPLY ALLOWANCE FOR
TEXTILE	TEX-02	TBD	TBD	REFER TO DRAWINGS	TBD	TBD	TBD	\$100 / YARD BANQUETTE SEAT UPHOLSTERY; APPLY ALLOWANCE FOR \$
WOOD	WD-01	N/A	SELECT WHITE OAK, PLAIN SLICED/FLAT SLICED	REFER TO DRAWINGS	N/A	MATCH ARCHITECT'S COLOR SELECTION - SIMILAR TO FLUSH WOOD DOORS (ASPIRO SERIES - COCOA BEAN); MATTE CLEAR FINISH (DEWAXED SHELLAC)	REFER TO ELEVATIONS FOR GRAIN DIRECTION; BOOK MATCH/BALANCE MATCH	/ YARD
		•	•			· · · · · · · · · · · · · · · · · · ·		•
WINDOW WINDOW TREATMENT	WT-01	LEGRAND	MANUAL SHADE	FIELD VERIFY		MERMET VERONA DAYLIGHT 3% ECLIPSE	REFER TO DRAWINGS FOR MOUNTING CONFIGUATION	BOD: LEGRAND SOLARFECTIVE TS SERIES MANUAL SHADE



OF ART OR FUNITURE - EXCEPT THAT WHERE THE WALL SEGMENT IS LESS THAN 24" WIDE, CENTER THE DEVICES AS DETAILED.

FINISH SCHEDULE

STANDARD-DEVICE MOUNTING GUIDELINES



INTERIOR PARTITION TYPES

* FIRE RATING AND ACOUSTICAL ATTENUATION WHEN REQUIRED BY PARTITION SYMBOL

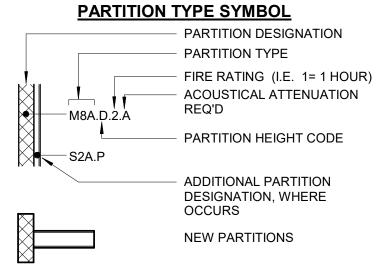
REFER TO WALL SECTION FOR CONSTRUCTION WS

S1FA	1 1/2" METAL FURRING WITH (1) LAYER 5/8" GYPSUM WALL BOARD ONE SIDE	
S3A	3 5/8" METAL STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE * 1 HR RATED UL419 * ACOUSTIC ATTEN. COMPONENTS STC-45	4 7/8"
S3B	3 5/8" METAL STUDS WITH (2) LAYERS 5/8" TYPE X GYPSUM WALL BOARD EACH SIDE * 2 HR RATED U419 * ACOUSTIC ATTEN. COMPONENTS STC-50	e 118
S3C	3 5/8" METAL STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD ONE SIDE	
S3L	3 5/8" METAL STUDS WITH (2) LAYERS 5/8" GYPSUM WALL BOARD ON ONE SIDE AND (1) LAYER 5/8" GYPSUM WALL BOARD ON 1/2" RESILIENT METAL CHANNEL ON THE OTHER * ACOUSTIC ATTEN. COMPONENTS STC-57	o J
S4Y	4" METAL SHAFT WALL STUDS WITH (2) LAYERS 5/8" GYPSUM WALL BOARD ONE SIDE AND 1" GYPSUM SHAFT LINER * 2 HR RATED U417 * ACOUSTIC ATTEN. COMPONENTS STC-39	2 1/4 2 1/4
S6A	6" METAL STUDS WITH (1) LAYER 5/8" GYPSUM WALL BOARD EACH SIDE * ACOUSTIC ATTEN. COMPONENTS STC-44	7 1/4"
F6N	6" METAL STUD FRAMING, LOAD-BEARING, WITH (1) LAYER 5/8" GYPSUM BOARD EACH SIDE * ACOUSTIC ATTEN. COMPONENTS STC-32	7 114"
F6C	6" COLD FORMED METAL FRAMING, LOAD-BEARING, WITH (1) LAYER 5/8" GYPSUM BOARD ONE SIDE * ACOUSTIC ATTEN. COMPONENTS STC-32	6 5/8"

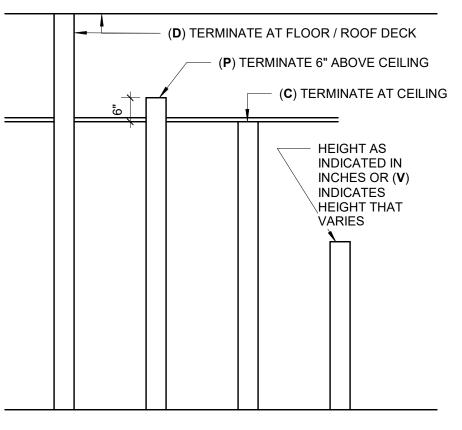
INTERIOR PARTITION NOTES

- A. ALL WALLS ARE TYPE S3A.D.A UNLESS NOTED OTHERWISE B. PARTITION SYMBOLS TYPICALLY APPEAR ON THE LARGEST SCALE FLOOR PLANS. IF A WALL DOES NOT HAVE A PARTITION SYMBOL, PLEASE CONSULT ARCHITECT.
- C. REFER TO FINISH AND CEILING PLANS FOR WALL FINISH, WALL BASE, AND CEILING INFORMATION.
- D. REFER TO WALL SECTIONS FOR EXTERIOR WALL CONSTRUCTION.
- E. PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM BOARD IN ALL ROOMS CONTAINING OPERABLE PLUMBING
- FIXTURES AND WITHIN 4'-0" OF DRINKING FOUNTAINS / WATER COOLERS, UNLESS NOTED OTHERWISE. F. PROVIDE LATERAL BRACING AT 48" ON CENTER FOR NON-STRUCTURAL METAL FRAMED PARTITIONS WHICH EXTEND ABOVE THE CEILING UNLESS NOTED OTHERWISE. LATERAL
- BRACING NOT REQUIRED FOR PARTITIONS THAT EXTEND TO THE DECK ABOVE UNLESS NOTED OTHERWISE. G. PROVIDE FIRE RESISTIVE RATED GYPSUM BOARD AT ALL RATED ASSEMBLIES TO MEET ASSEMBLY REQUIREMENTS.
- H. PROVIDE FIRE RESISTIVE JOINT SYSTEMS EQUAL TO WALL RATING AT ALL PENETRATIONS AND AT HEAD / FLOOR INTERSECTIONS WITH RATED ASSEMBLIES.
- I. PROVIDE ACOUSTICAL SEALANT AT WALL SILL, HEAD, PENETRATIONS AND ADDITIONAL SPECIFIED SOUND ATTENUATION COMPONENTS AT SOUND RATED WALLS.
- J. PROVIDE SPECIFIED TILE BACKER BOARD AT ALL WALLS INDICATED TO HAVE CERAMIC TILE, REFER TO FINISH PLANS.
- K. ISOLATE NON-LOAD-BEARING STUD FRAMING FROM BUILDING STRUCTURE TO PREVENT TRANSFER OF VERTICAL LOADS WHILE PROVIDING LATERAL SUPPORT AS
- SPECIFIED. L. METAL STUD SPACING SHALL BE 16" ON CENTER MAXIMUM UNLESS OTHERWISE REQUIRED BY DELEGATED DESIGN OR NOTED OTHERWISE.

INTERIOR PARTITION LEGEND



INTERIOR PARTITION HEIGHT CODES



SPECIALITY EQUIPMENT SCHEDULE					
Type Mark	Mark	Description	Manufacturer	Model	Count
E101	OFOI	LAMINATOR, CTOP		N/A	1
E102	OFOI	PAPER CUTTER, MANUAL		N/A	1
E103	OFOI	CARD CUTTER		N/A	1
E104	OFOI	DESK COPY/PRINTER		N/A	1
E110	CFCI	MICROWAVE 13-5/8"H x 24-1/8"W x 19-1/4"D (WHITE)	GE	JES2051DNW W	2
E111	CFCI	TOP FREEZER REFRIGERATOR (65-7/8"H x 29-3/4"W x 33-1/2"D)	WHIRLPOOL	WRT318FMDW	1
E112	OFOI	K-SELECT COFFEE BREWER (12.5"H x 9.2"W x 11.6"D)	KEURIG	K-SELECT	1

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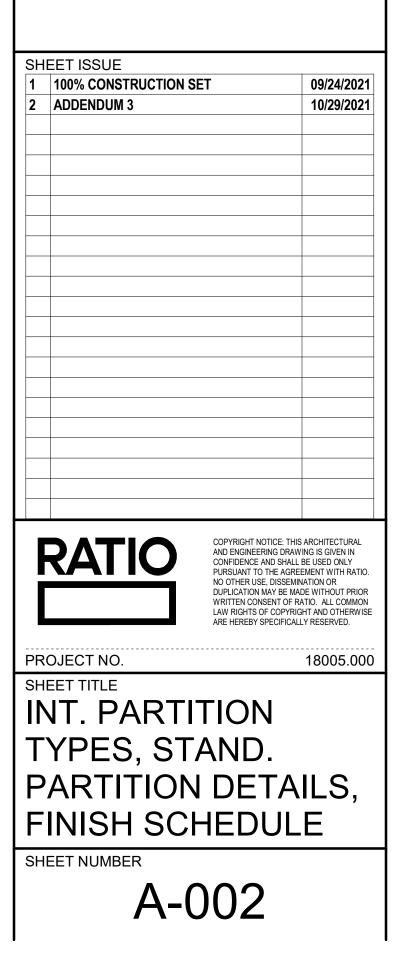
Structural Engineer LYNCH, HARRISON & BRUMLEVE, INC. 550 Virginia Avenue Indianapolis, Indiana 46203

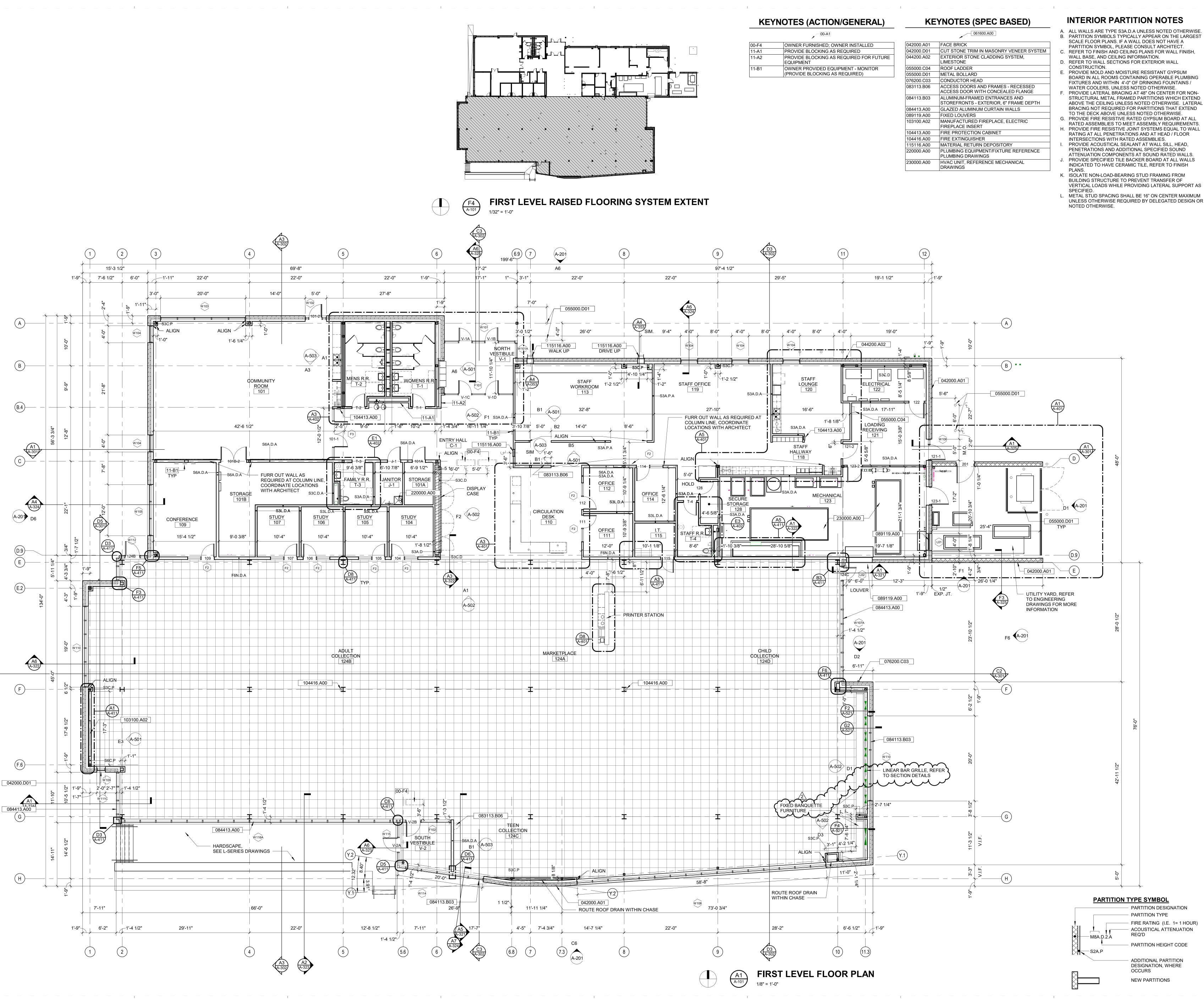
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042000.A01	FACE BRICK
042000.D01	CUT STONE TRIM IN MASONRY VENEER SYSTEM
044200.A02	EXTERIOR STONE CLADDING SYSTEM, LIMESTONE
055000.C04	ROOF LADDER
)55000.D01	METAL BOLLARD
076200.C03	CONDUCTOR HEAD
083113.B06	ACCESS DOORS AND FRAMES - RECESSED ACCESS DOOR WITH CONCEALED FLANGE
084113.B03	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - EXTERIOR, 6" FRAME DEPTH
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
089119.A00	FIXED LOUVERS
103100.A02	MANUFACTURED FIREPLACE, ELECTRIC FIREPLACE INSERT
104413.A00	FIRE PROTECTION CABINET
104416.A00	FIRE EXTINGUISHER
115116.A00	MATERIAL RETURN DEPOSITORY
220000.A00	PLUMBING EQUIPMENT/FIXTURE REFERENCE PLUMBING DRAWINGS
230000.A00	HVAC UNIT, REFERENCE MECHANICAL

- BOARD IN ALL ROOMS CONTAINING OPERABLE PLUMBING FIXTURES AND WITHIN 4'-0" OF DRINKING FOUNTAINS /
- STRUCTURAL METAL FRAMED PARTITIONS WHICH EXTEND ABOVE THE CEILING UNLESS NOTED OTHERWISE. LATERAL BRACING NOT REQUIRED FOR PARTITIONS THAT EXTEND
- RATED ASSEMBLIES TO MEET ASSEMBLY REQUIREMENTS. H. PROVIDE FIRE RESISTIVE JOINT SYSTEMS EQUAL TO WALL
- ATTENUATION COMPONENTS AT SOUND RATED WALLS.
- L. METAL STUD SPACING SHALL BE 16" ON CENTER MAXIMUM UNLESS OTHERWISE REQUIRED BY DELEGATED DESIGN OR

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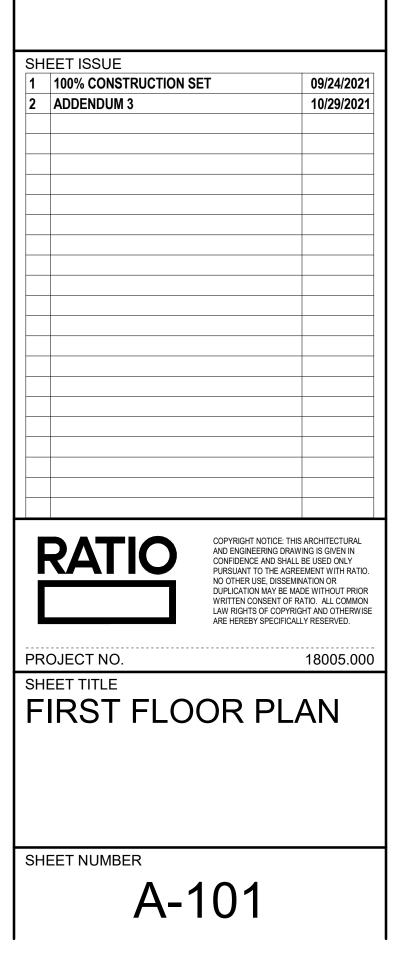
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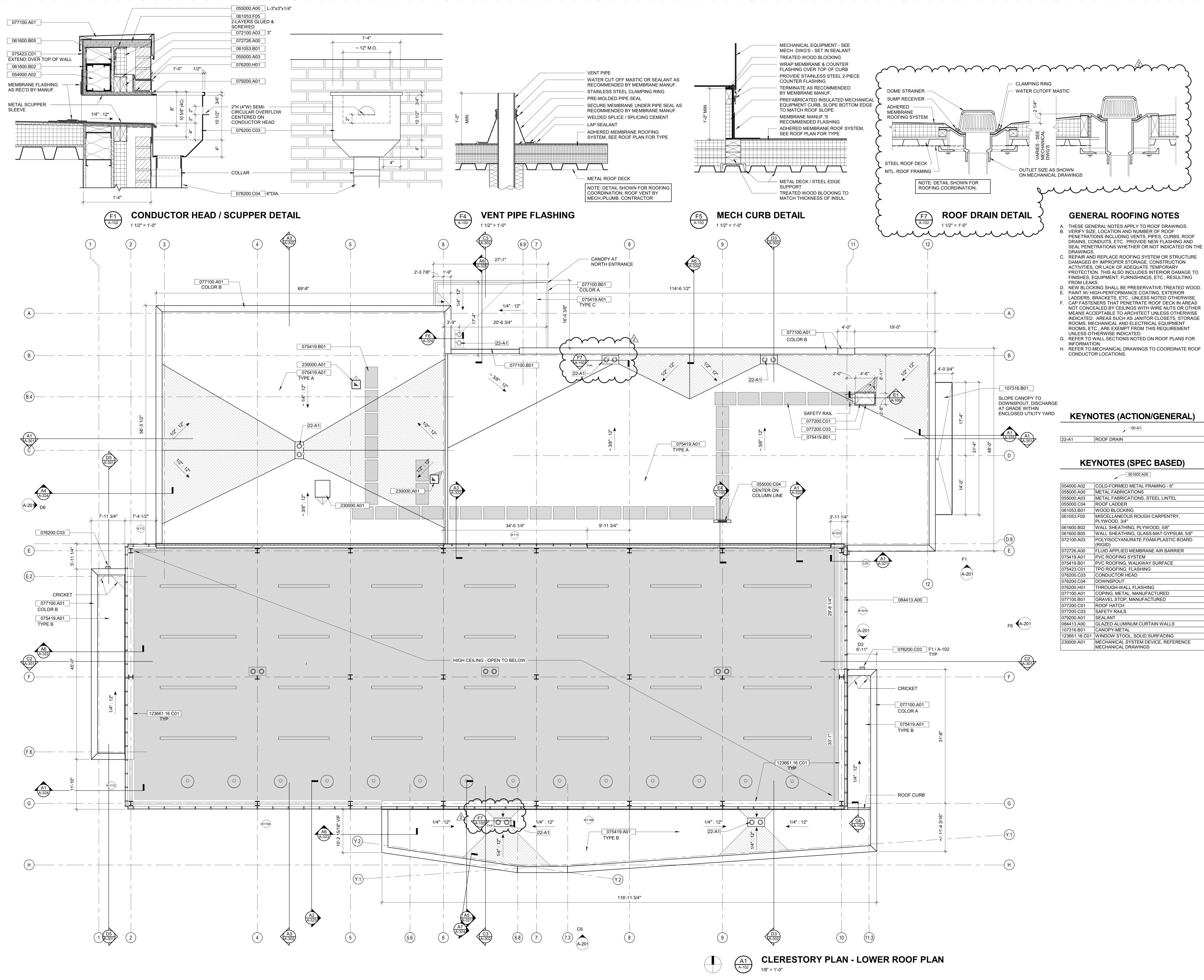
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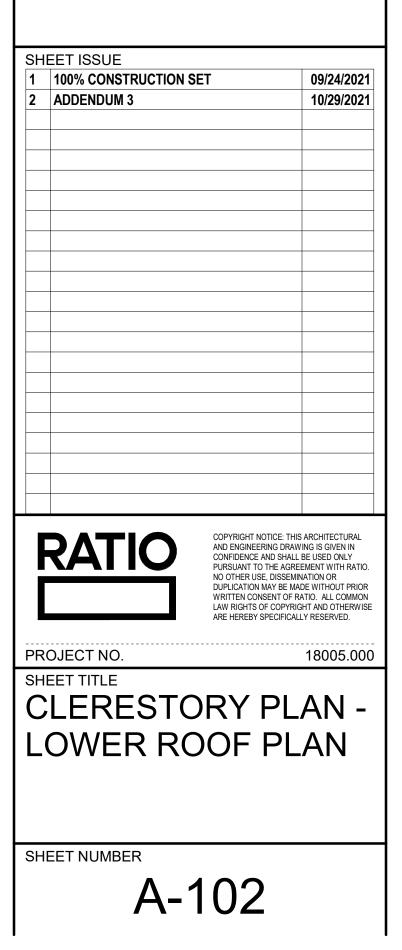
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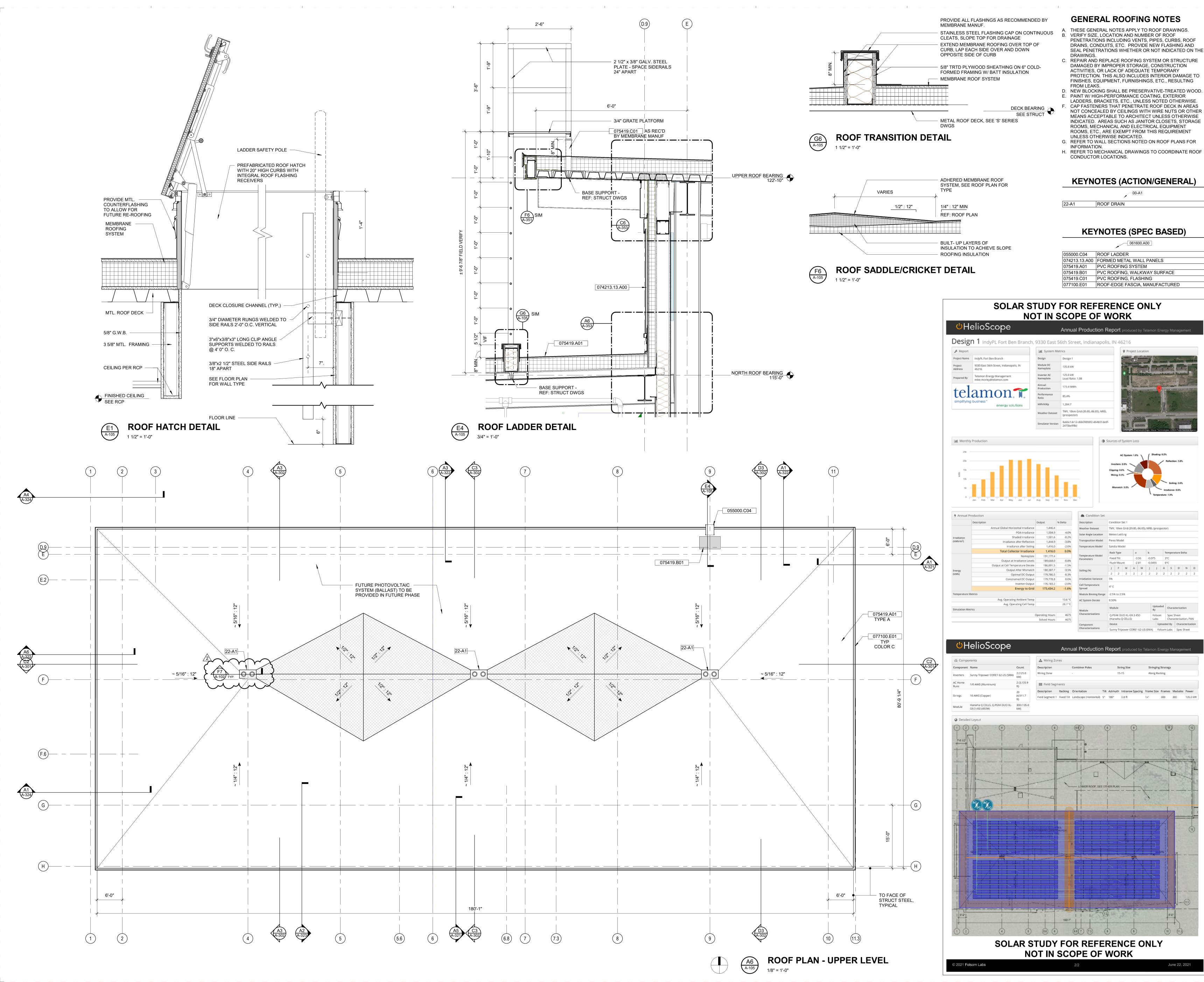
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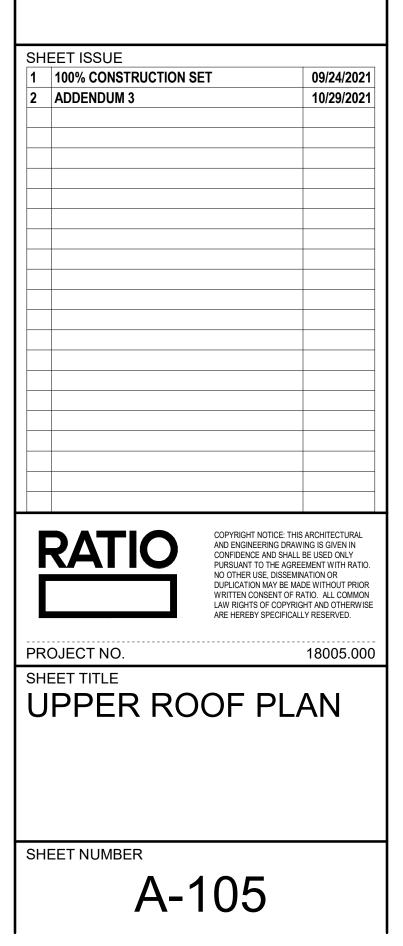
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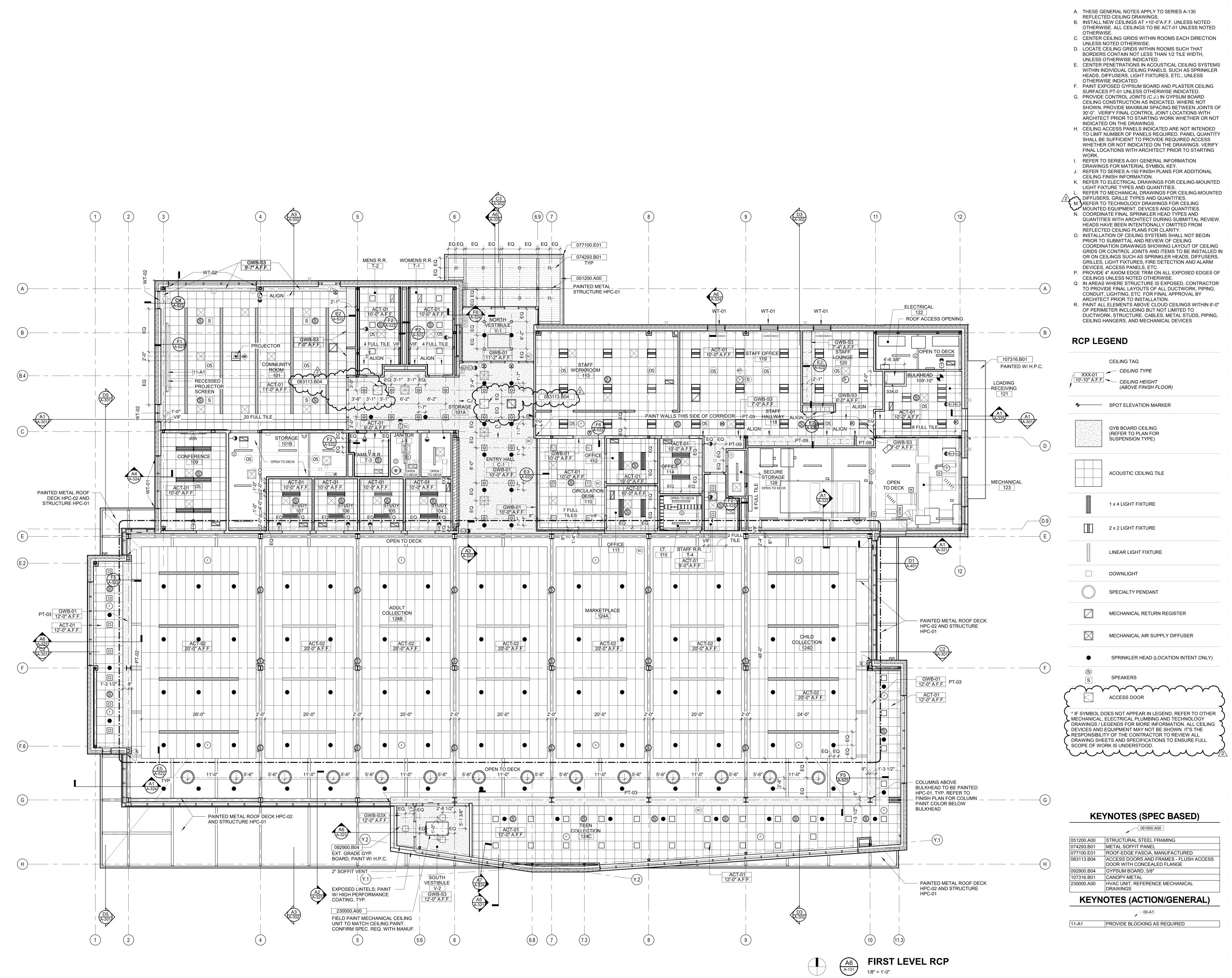
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GENERAL CEILING PLAN NOTES

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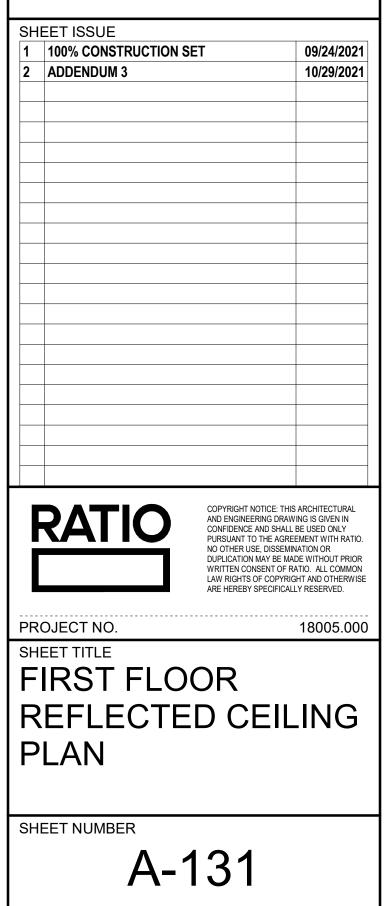
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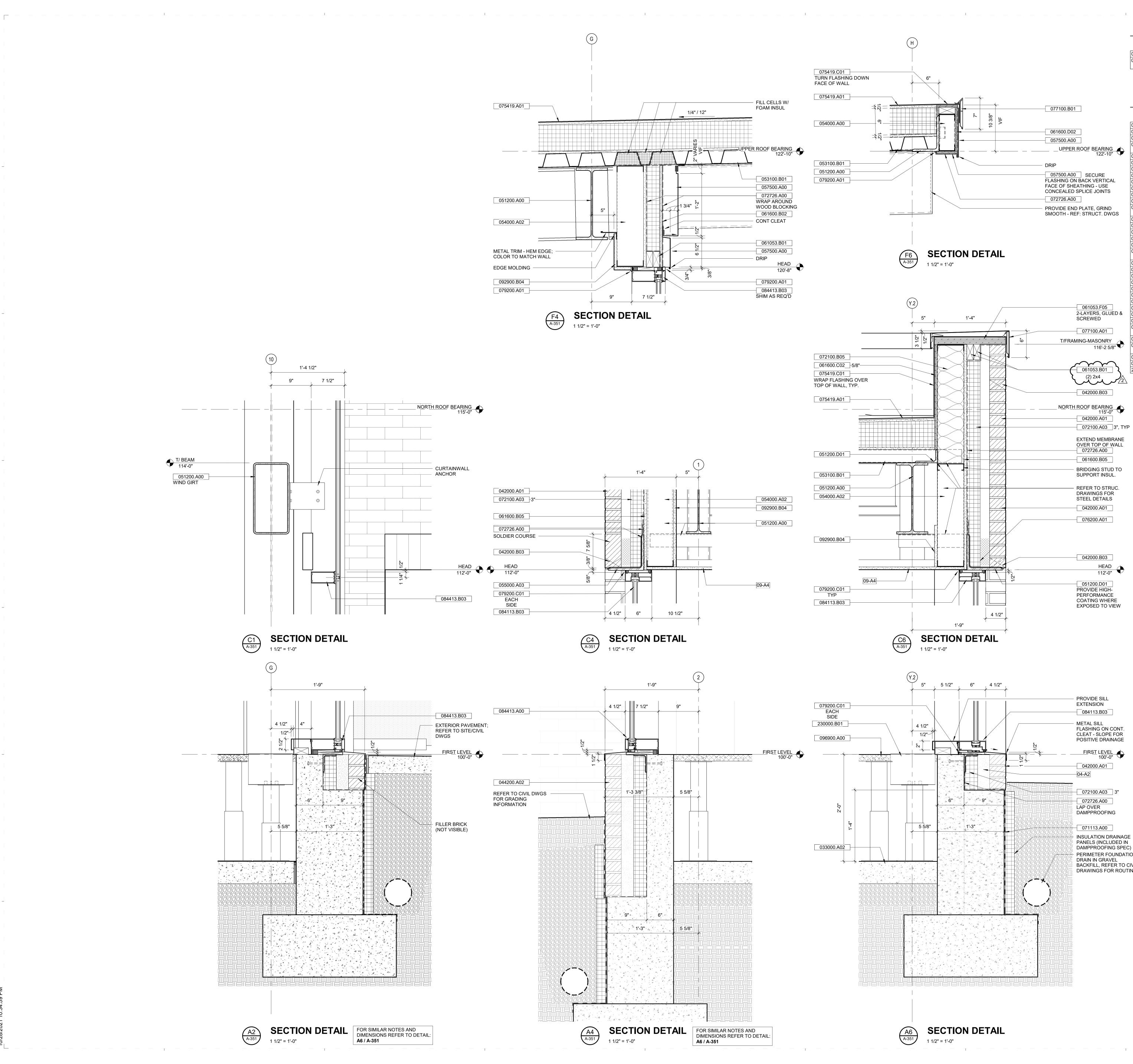
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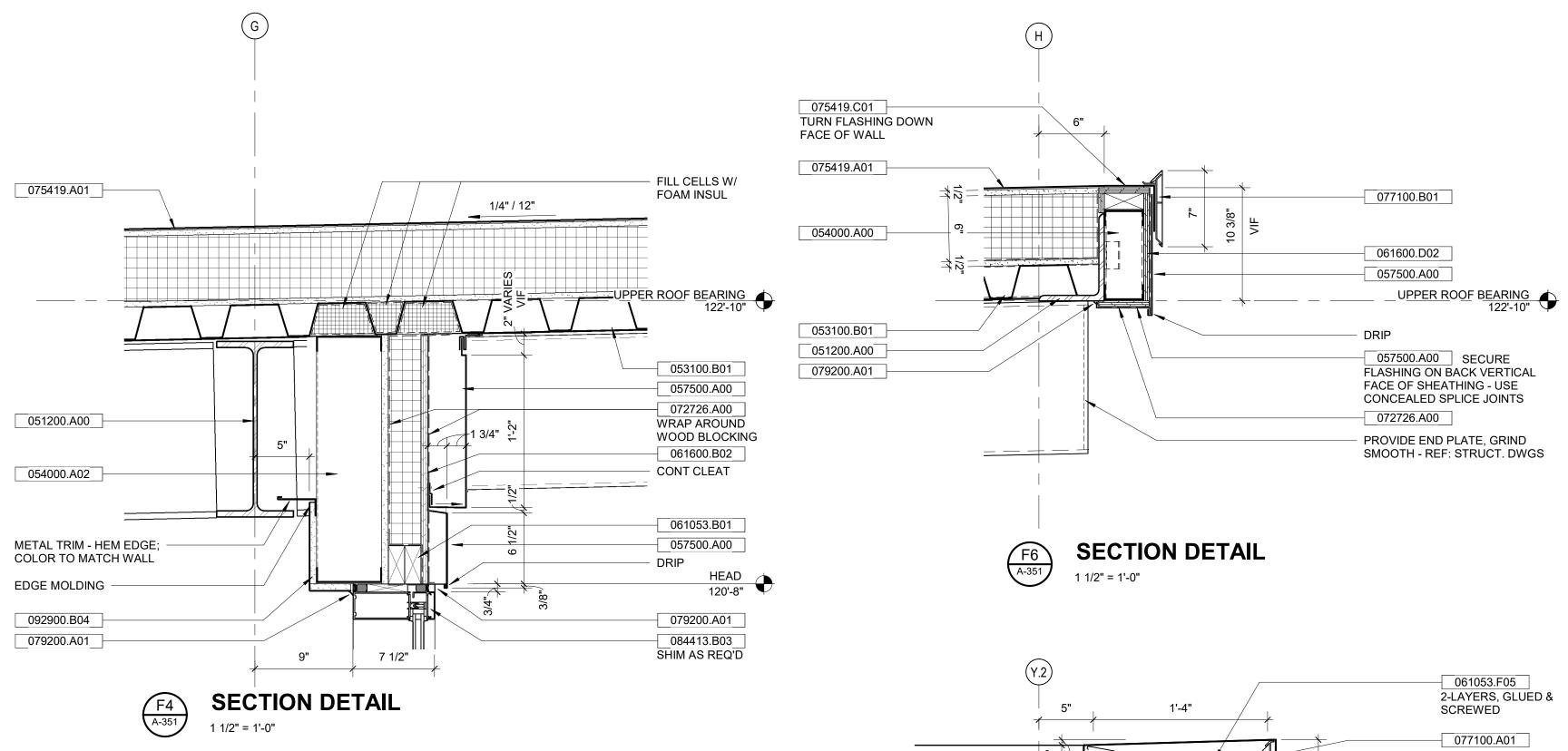
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-00-A1

)4-A2	GROUT SOLID BELOW FLASHING
-	CEILING, REFER TO REFLECTED CEILING PLAN FOR TYPE

KEYNOTES (SPEC BASED)

	061600.A00
033000.A02	CAST-IN-PLACE CONCRETE SLAB
042000.A01	FACE BRICK
042000.B03	MASONRY VENEER, WEEP/VENT
044200.A02	EXTERIOR STONE CLADDING SYSTEM, LIMESTONE
051200.A00	STRUCTURAL STEEL FRAMING
051200.D01	STRUCTURAL STEEL FRAMING, ANGLE
053100.B01	ROOF DECK
054000.A00	COLD-FORMED METAL FRAMING
054000.A02	COLD-FORMED METAL FRAMING - 6"
055000.A03	METAL FABRICATIONS, STEEL LINTEL
057500.A00	DECORATIVE FORMED METAL
061053.B01	WOOD BLOCKING
061053.F05	MISCELLANEOUS ROUGH CARPENTRY, PLYWOOD, 3/4"
061600.B02	WALL SHEATHING, PLYWOOD, 5/8"
061600.B05	WALL SHEATHING, GLASS-MAT GYPSUM, 5/8"
061600.C02	ROOF SHEATHING, PLYWOOD, 1/2"
061600.D02	PARAPET SHEATHING, PLYWOOD, 1/2"
071113.A00	BITUMINOUS DAMPPROOFING
072100.A03	POLYISOCYANURATE FOAM-PLASTIC BOARD (RIGID)
072100.B05	GLASS-FIBER BLANKET, R-19 (BATT)
072726.A00	FLUID APPLIED MEMBRANE AIR BARRIER
075419.A01	PVC ROOFING SYSTEM
075419.C01	PVC ROOFING, FLASHING
076200.A01	SHEET METAL FLASHING AND TRIM
076200.H01	THROUGH-WALL FLASHING
077100.A01	COPING, METAL, MANUFACTURED
077100.B01	GRAVEL STOP, MANUFACTURED
079200.A01	SEALANT
079200.C01	BACKER ROD AND SEALANT
084113.B03	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - EXTERIOR, 6" FRAME DEPTH
084413.A00	GLAZED ALUMINUM CURTAIN WALLS
084413.B03	GLAZED ALUMINUM CURTAIN WALLS - 7 1/2" FRAME DEPTH
092900.B04	GYPSUM BOARD, 5/8"
096900.A00	ACCESS FLOORING SYSTEM

096900.A00ACCESS FLOORING SYSTEM230000.B01DIFFUSER, REFERENCE MECHANICAL DRAWINGS

PERIMETER FOUNDATION DRAIN IN GRAVEL BACKFILL, REFER TO CIVIL DRAWINGS FOR ROUTING

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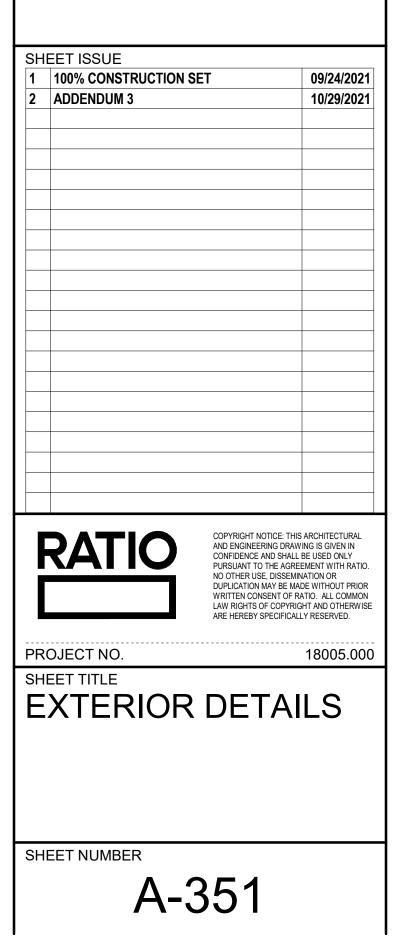
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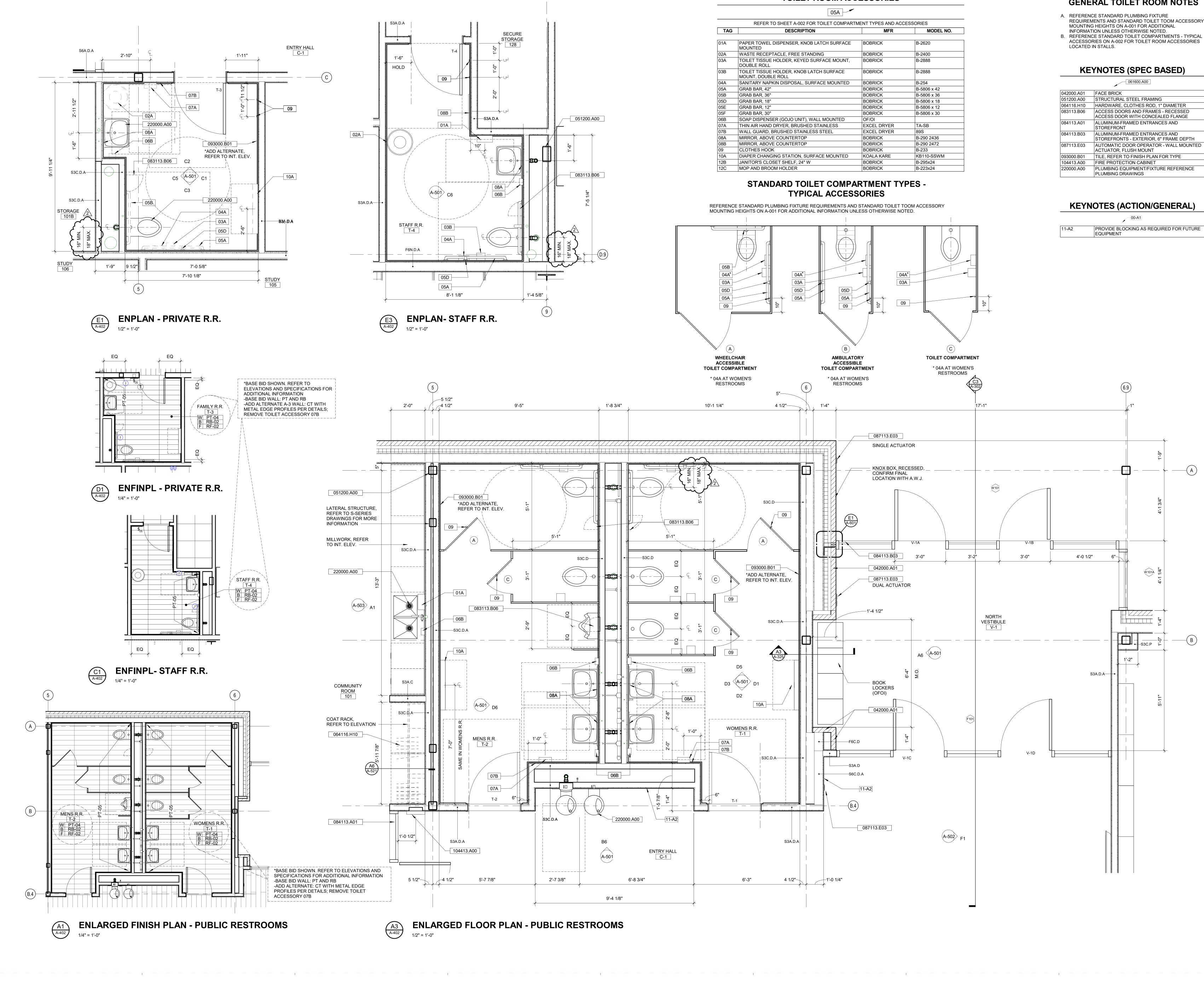
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TOILET ROOM ACCESSORIES

USA		
EET A-002 FOR TOILET COMPARTM	ENT TYPES AND ACCES	SORIES
DESCRIPTION	MFR	MODEL NO.
INSER, KNOB LATCH SURFACE	BOBRICK	B-2620
, FREE STANDING	BOBRICK	B-2400
ER, KEYED SURFACE MOUNT,	BOBRICK	B-2888
ER, KNOB LATCH SURFACE L	BOBRICK	B-2888
SPOSAL, SURFACE MOUNTED	BOBRICK	B-254
	BOBRICK	B-5806 x 42
	BOBRICK	B-5806 x 36
	BOBRICK	B-5806 x 18
	BOBRICK	B-5806 x 12
	BOBRICK	B-5806 x 30
OJO UNIT), WALL MOUNTED	OF/OI	
R, BRUSHED STAINLESS	EXCEL DRYER	TA-SB
IED STAINLESS STEEL	EXCEL DRYER	89S
INTERTOP	BOBRICK	B-290 2436
INTERTOP	BOBRICK	B-290 2472
	BOBRICK	B-233
TATION, SURFACE MOUNTED	KOALA KARE	KB110-SSWM
HELF, 24" W	BOBRICK	B-295x24
LDER	BOBRICK	B-223x24

GENERAL TOILET ROOM NOTES

- ACCESSORIES ON A-002 FOR TOILET ROOM ACCESSORIES

042000.A01	FACE BRICK
051200.A00	STRUCTURAL STEEL FRAMING
064116.H10	HARDWARE, CLOTHES ROD, 1" DIAMETER
083113.B06	ACCESS DOORS AND FRAMES - RECESSED ACCESS DOOR WITH CONCEALED FLANGE
084113.A01	ALUMINUM-FRAMED ENTRANCES AND STOREFRONT
084113.B03	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - EXTERIOR, 6" FRAME DEPTH
087113.E03	AUTOMATIC DOOR OPERATOR - WALL MOUNTED ACTUATOR, FLUSH MOUNT
093000.B01	TILE, REFER TO FINISH PLAN FOR TYPE
104413.A00	FIRE PROTECTION CABINET
220000.A00	PLUMBING EQUIPMENT/FIXTURE REFERENCE PLUMBING DRAWINGS

	- UU-A1
11-A2	PROVIDE BLOCKING AS REQUIRED FOR FUTURE EQUIPMENT

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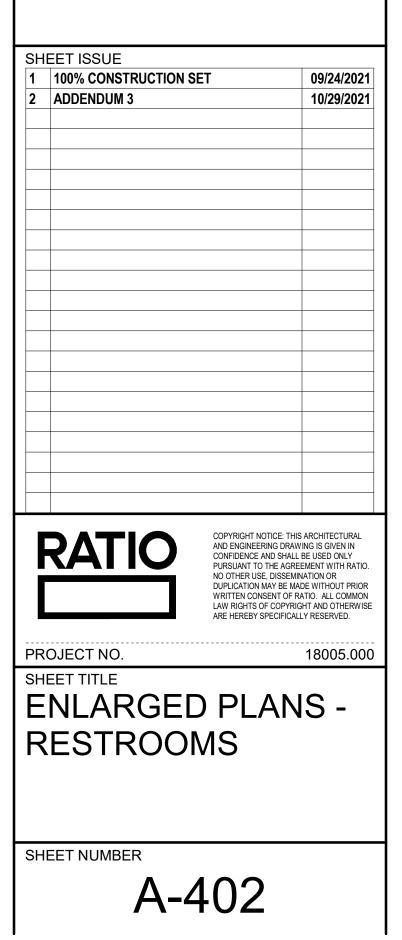
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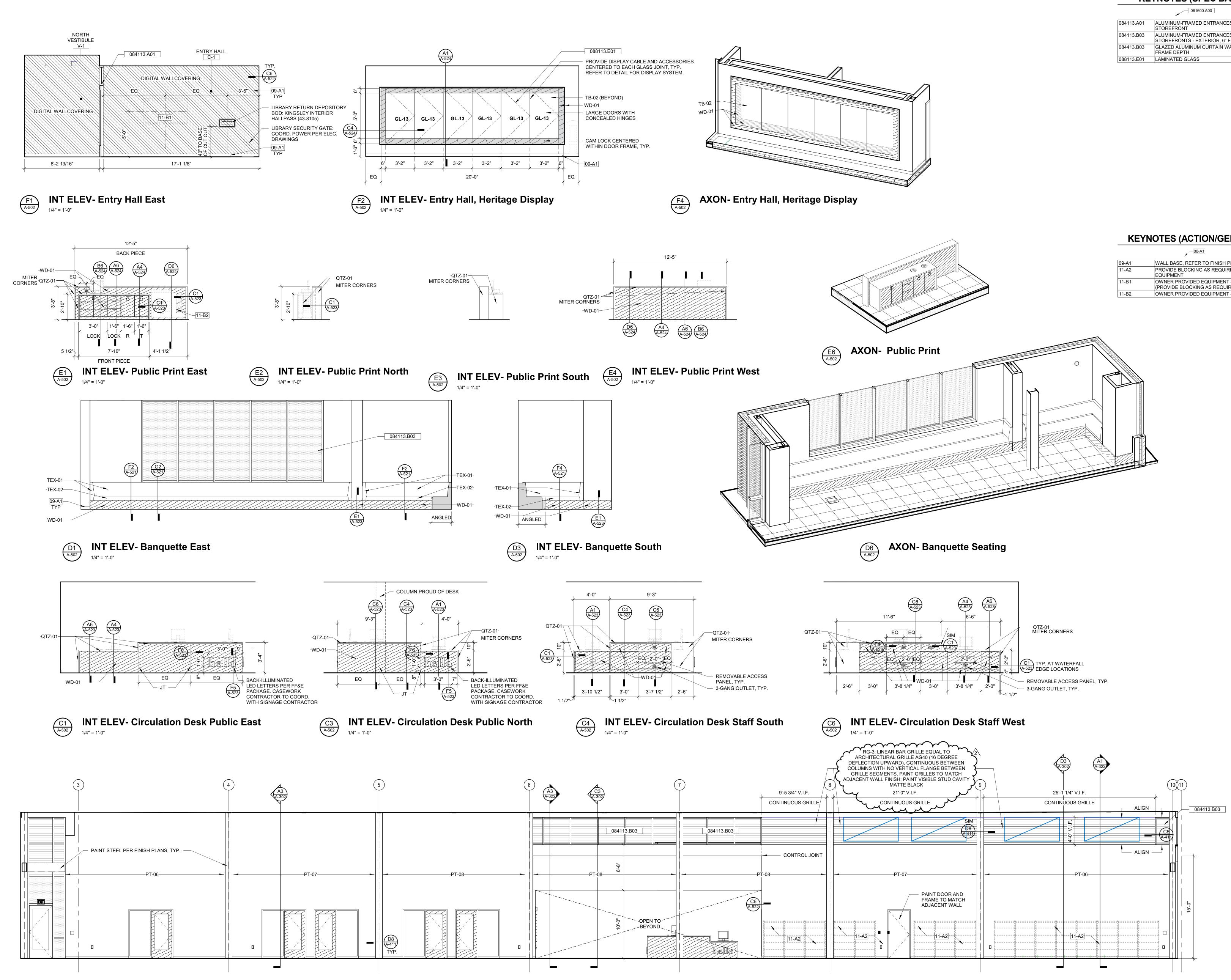
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INT ELEV- South Bar North (Feature Wall) 3/16" = 1'-0"



KEYNOTES (SPEC BASED)

	·
084113.A01	ALUMINUM-FRAMED ENTRANCES AND STOREFRONT
	ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS - EXTERIOR, 6" FRAME DEPTH
084413.B03	GLAZED ALUMINUM CURTAIN WALLS - 7 1/2" FRAME DEPTH
088113.E01	LAMINATED GLASS

KEYNOTES (ACTION/GENERAL)

09-A1	WALL BASE, REFER TO FINISH PLAN FOR TYPE
11-A2	PROVIDE BLOCKING AS REQUIRED FOR FUTURE EQUIPMENT
11-B1	OWNER PROVIDED EQUIPMENT - MONITOR (PROVIDE BLOCKING AS REQUIRED)
11-B2	OWNER PROVIDED EQUIPMENT - COPIER

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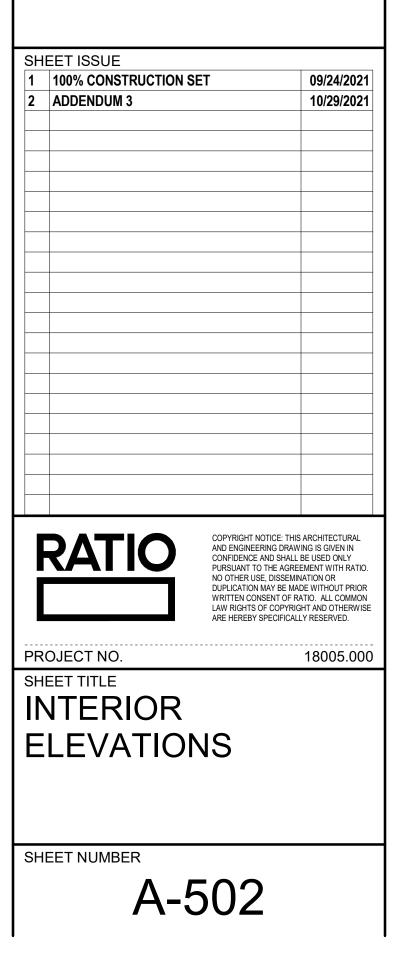
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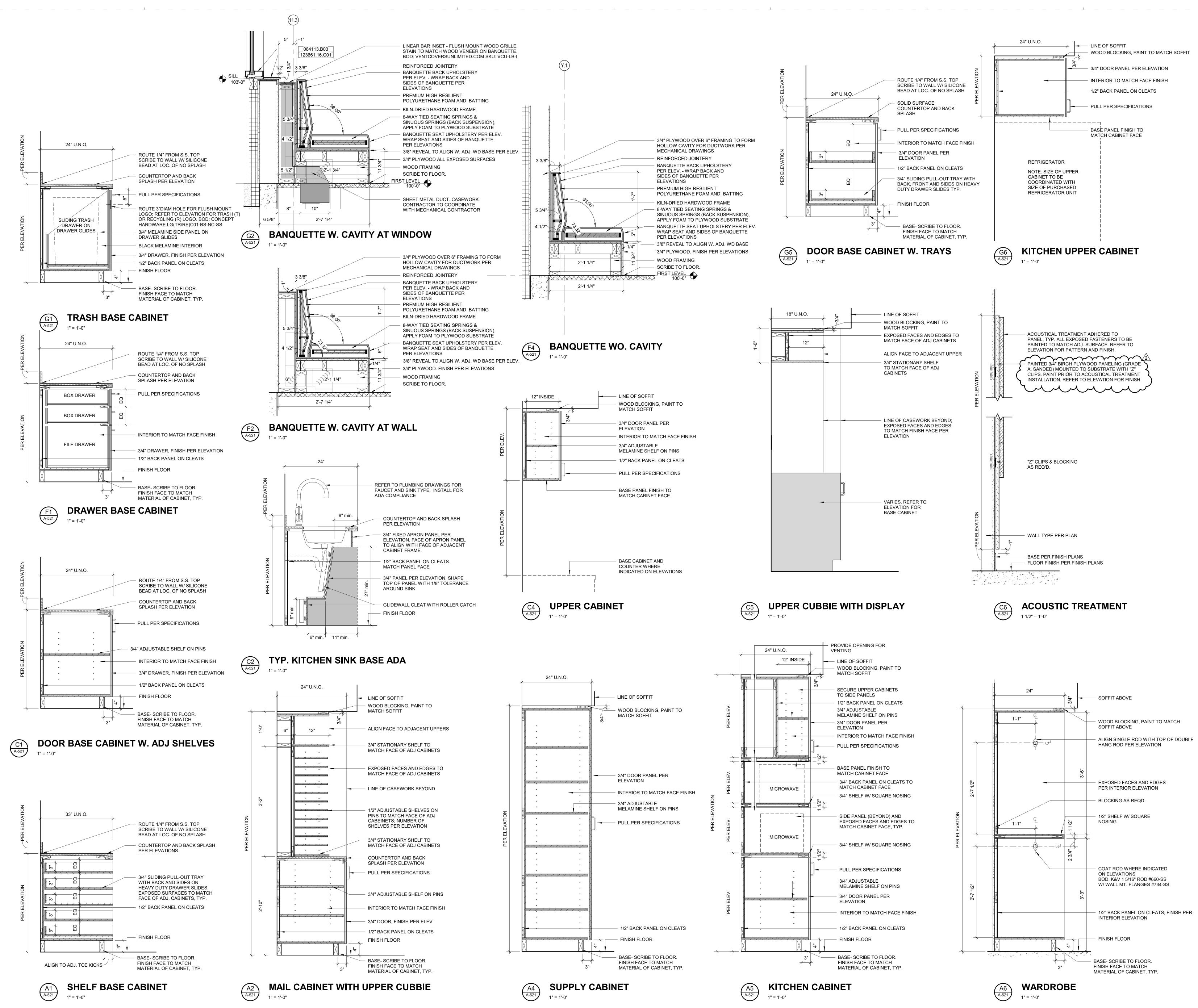
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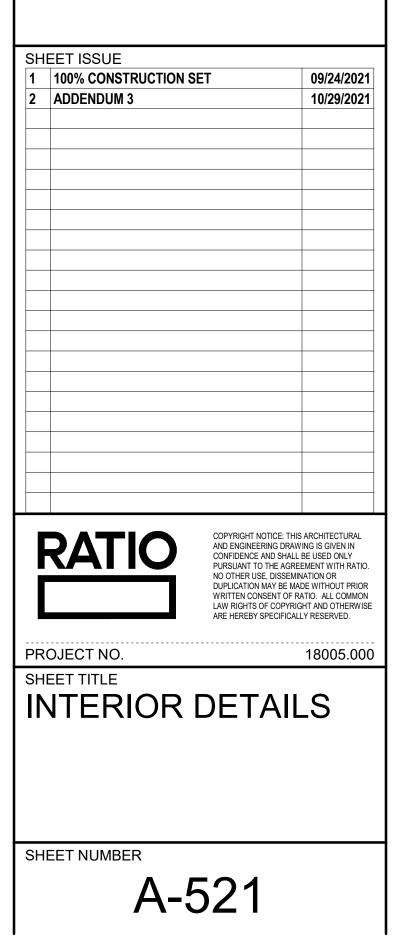
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— — —

LIGHT	ING SYMBOLS:	POWE	R SYMBOLS:	SIGN	AL/COMMUNICATIONS:	<u>GENERAL S</u>	SYMBOLS:
0	CEILING MOUNTED LIGHT FIXTURE	÷	DUPLEX RECEPTACLE	▼	VOICE JACK		NEW
	LINEAR LIGHT FIXTURE		"SPECIAL" RECEPTACLE- TYPE AS NOTED ON THE DRAWINGS	\bigtriangledown	DATA JACK		EXISTING
	ROUND DOWNLIGHT TYPE LIGHT FIXTURE	\ominus	SIMPLEX RECEPTACLE	$\mathbf{\nabla}$	DATA/VOICE JACK		DEMOLITION
	SQUARE DOWNLIGHT TYPE LIGHT FIXTURE	ŧ	QUADRAPLEX RECEPTACLE		BELOW THE CEILING DATA ONLY JACK FOR WIRELESS		PLAN NOTE
-\$-	ROUND PENDANT TYPE LIGHT FIXTURE	ŧ	DOUBLE DUPLEX RECEPTACLE		ABOVE THE CEILING DATA ONLY JACK FOR WIRELESS		
	SQUARE PENDANT TYPE LIGHT FIXTURE	0	JUNCTION BOX	\mathbb{V}			
Ă	WALL MOUNTED SCONCE TYPE LIGHT FIXTURE	\odot	FLOOR BOX		VOLUME CONTROL CLOCK		
		\wedge	MOTOR				
2	CELING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROWS		DISCONNECT SWITCH	4	WALL MOUNTED SPEAKER		
{ ∞	CELING MOUNTED EXIT LIGHT WITH SINGLE FACE (SHADED AREA)		COMBINATION CONTROLLER	S	CEILING MOUNTED SPEAKER		
{ ∞	CELING MOUNTED EXIT LIGHT WITH DOUBLE FACE (SHADED AREA)		(STARTER/DISCONNECT SWITCH)	₿	HEAT DETECTOR		
	WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROWS	0	PUSH BUTTON	\$	SMOKE DETECTOR		
<u>~</u>		т		F	FIRE ALARM MANUAL PULL STATION		
0	POLE TYPE LIGHT FIXTURE WITH POST TOP	\$'	MANUAL CONTROLLER WITH THERMAL OVERLOADS	-E	FIRE ALARM AUDIO/VISUAL		
\bigcirc	ROUND BOLLARD TYPE LIGHT FIXTURE	Τ	TRANSFORMER	-EC	EXISTING FIRE ALARM AUDIO/VISUAL		
_		VZZ2	PANEL, SEE DRAWINGS AND SPECIFICATIONS	\rightarrow	FIRE ALARM VISUAL ONLY		
	SQUARE BOLLARD TYPE LIGHT FIXTURE		PANEL, SEE DRAWINGS AND SPECIFICATIONS	®	BELL		
\bigcirc	IN-GRADE TYPE LIGHT FIXTURE			FS	SPRINKLER FLOW SWITCH		
	SQUARE HIGH-BAY/LOW-BAY LIGHT FIXTURE	<pre>/ XX-XXX</pre>	PANEL IDENTIFICATION	OS&Y	SPRINKLER SUPERVISED SWITCH		
\bigcirc	ROUND HIGH-BAY/LOW-BAY LIGHT FIXTURE	WIRIN	IG:	С	CAMERA		
	EMERGENCY WALL MOUNT LIGHT FIXTURE			C	WALL MOUNTED CAMERA		
	EMERGENCY CEILING MOUNT LIGHT FIXTURE	0	PHASE WIRE → TYPICAL CONDUIT	MD	MOTION DETECTOR		
				MD	WALL MOUNTED MOTION DETECTOR		
6///	HATCHING INDICATES EMERGENCY FOR ANY OF THE ABOVE LIGHT FIXTURE TYPES.	RACEWA' HOMERU	Y └NEUTRAL	CR	CARD READER		
		∃ CO	NDUIT CAP	PR	PROXIMITY READER		
	HATCHING <u>AND</u> "NL" INDICATES EMERGENCY AND NIGHTLIGHT (ALWAYS ON) FOR ANY OF THE ABOVE LIGHT FIXTURE TYPES.	-	UIPMENT CONNECTION NDUIT UP/DOWN	<u> </u>	NURSE CALL DOME LIGHT WALL MOUNTED Z=ZONE LIGHT		
NL				\bullet	NURSE CALL DOME LIGHT CEILING MOUNTED		
- OS	WALL MOUNTED OCCUPANCY SENSOR	i direction dir	OUND		Z=ZONE LIGHT		
\$ ^a	TOGGLE SWITCH - LEG "a"			N	NURSE CALL EMERGENCY DEVICE NC = NURSE CONSOLE (VOIP), DESK MOUNTED U.O.N.		
\$ ³ a	TOGGLE SWITCH - 3-WAY, LEG "a" 4=4-WAY D=DIMMER OS=OCCUPANCY SENSOR K=KEY M=MOMENTARY				E = EMERGENCY PULL CORD STATION - PROVIDE CORD TO WITHIN 2" OF FLOOR. FOR SHOWER STATIONS, MOUNT AT 6'-6" A.F.F. EC = EMERGENCY PULL CORD STATION WITH CANCEL BUTTON. PROVIDE CORD TO WITHIN 2" OF FLOOR. MSTR = NURSE CALL MASTER STATION.		
	P=PILOT LIGHT			IZZ NCEQ	NURSE CALL WALL-MOUNTED EQUIPMENT CABINET WITH		
OS	CEILING MOUNTED MOTION SENSOR			P	POWER SUPPLY AND ETHERNET SWITCHES. PANIC BUTTON		
٠	CONTROL STATION			DO	DOOR PUSH PAD		

ELECTRICAL SYMBOLS LEGEND

GENERAL ELECTRICAL NOTES: (APPLY TO ALL ELECTRICAL SHEETS)

1. PRIOR TO ANY ELECTRICAL OR SYSTEMS ROUGH-INS, MEET ON SITE FOR VERIFICATION OF EXACT LOCATION WITH OWNER AND ARCHITECT.

2. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED FOR PURPOSES OF EQUIPMENT OR DEVICE LOCATIONS.

 CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION WITH CODE REQUIRED CLEARANCES AND OTHER TRADES, AND ACCESSIBILITY FOR OPERATION AND MAINTENANCE AS RECOMMENDED BY MANUFACTURERS.
 REFER TO ARCHITECTURAL, MECHANICAL, AND STRUCTURAL DRAWINGS AND COORDINATE LOCATIONS OF DEVICES AND

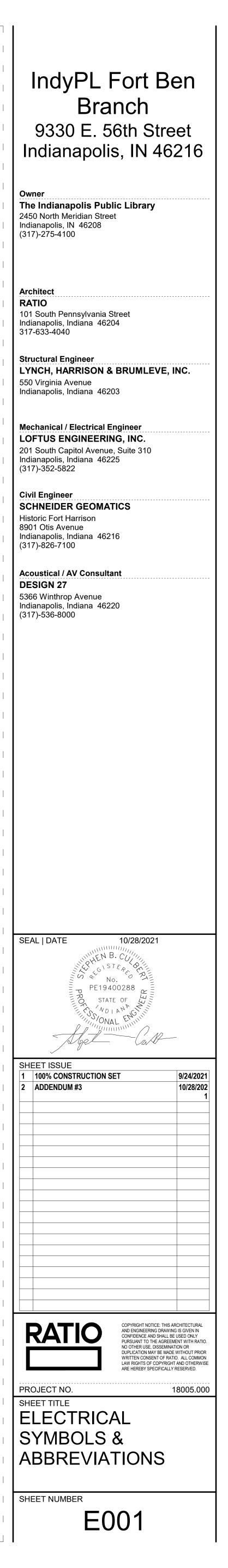
EQUIPMENT ACCORDINGLY. 5. BRING ANY DISCREPANCIES BETWEEN THE DRAWING TO THE ATTENTION OF THE ARCHITECT.

6. WRITTEN REQUEST FOR POWER OUTAGES SHALL BE SUBMITTED TO THE PROJECT MANAGER A MINIMUM OF 14-DAYS PRIOR TO THE REQUEST TIME FOR THE OUTAGE. THE REQUEST SHALL INCLUDE DURATION OF THE OUTAGE AND DETAIL ON AREAS OF THE BUILDING THAT WILL BE WITHOUT POWER DURING THE OUTAGE.

7. ALL NECESSARY POWER OUTAGES SHALL BE OF THE SHORTEST POSSIBLE DURATION.

8. THE CONTRACTOR IS ADVISED THAT NECESSARY SHUTDOWNS MAY BE REQUIRED TO OCCUR AT TIMES OUTSIDE OF NORMAL WORKING OR OPERATING HOURS TO ACCOMMODATE SCHEDULE. THE CONTRACTOR SHALL INCLUDE COSTS, IN HIS BID, FOR ANY OVERTIME WORK, OR WORK PERFORMED OUTSIDE OF NORMAL WORKING OR OPERATING HOURS.

9. ALL NEW RECEPTACLES, SWITCHES, ETC. ARE TO BE INSTALLED FLUSH MOUNTED IN WALLS UNLESS SPECIFICALLY INDICATED OTHERWISE,



PLAN NOTES:

- (1) PROVIDE LIGHTING RELAY PANEL. SEE DETAIL #1 ON SHEET E504.
- PROVIDE SWITCH BOX MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR CONTROL OF LIGHT FIXTURES IN THIS ROOM. SEE DETAIL #2 ON SHEET E502. 3) PROVIDE SWITCH BOX MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR WITH DIMMING FOR CONTROL OF LIGHT FIXTURES IN THIS ROOM. SEE DETAIL #3 ON SHEET E502.
- (4) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR
- LIGHTING CONTROL SYSTEM IN THIS ROOM. SEE DETAIL #4 ON SHEET E502. PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT
- LOCATION. SEE DETAIL #4 ON SHEET E502. (6) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN MENS RESTROOM T-2. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION. SEE DETAIL #4 ON SHEET E502.
- 7) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN STORAGE 101B . LOCATE IN ACCESSIBLE LOCATION +10' ABOVE FINISHED FLOOR IN AREAS WITH OPEN CEILING. SEE DETAIL #4 ON SHEET E502.
- (8) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR
- (9) PROVIDE LOW-VOLTAGE SWITCH FOR ON/OFF CONTROL OF OCCUPANCY SENSOR
- LIGHTING IN RECEIVING 121. SEE DETAIL #5 ON SHEET E502. (10) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT

SEE DETAIL #5 ON SHEET E502.



- FIXTURES IN WOMENS RESTROOM T-1. LOCATE ABOVE CEILING IN ACCESSIBLE
- CONTROL OF LIGHT FIXTURES IN RECEIVING 121. SEE DETAIL #5 ON SHEET E502.
- FIXTURES IN RECEIVING 121. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION.

- 11) PROVIDE LIGHTING CONTROL STATION FOR THE ARCHITECTURAL LIGHTING CONTROL SYSTEM IN COMMUNITY ROOM 101. SEE DETAIL #1 ON SHEET E503.
- (12) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR THE ARCHITECTURAL LIGHTING CONTROL SYSTEM IN COMMUNITY ROOM 101. SEE DETAIL #1 ON SHEET E503.
- PROVIDE ARCHITECTURAL LIGHTING CONTROL SYSTEM ROOM CONTROLLER FOR CONTROL OF LIGHT FIXTURES IN COMMUNITY ROOM 101. LOCATE IN ACCESSIBLE LOCATION +10' ABOVE FINISHED FLOOR IN AREAS WITH OPEN CEILING. SEE DETAIL #1 ON SHEET E503.
- PROVIDE RELAY SYSTEM CONTROL OF LIGHT FIXTURES IN THIS ROOM. SEE DETAIL #1 ON SHEET E504.
- $\widehat{(15)}$ provide lighting control station for lighting relay panel. See detail #1 AND DETAIL #2 ON SHEET E504.
- (16) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR CONTROL OF LIGHT FIXTURES IN STAFF WORKROOM 113, STAFF OFFICE 119, AND STAFF LOUNGE 120. SEE DETAIL #5 ON SHEET E502.
- PROVIDE LOW-VOLTAGE SWITCH FOR ON/OFF CONTROL OF OCCUPANCY SENSOR LIGHTING IN STAFF WORKROOM 113, STAFF OFFICE 119, AND STAFF LOUNGE 120. SEE DETAIL #5 ON SHEET E502.
- (18) PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN STAFF WORKROOM 113, STAFF HALLWAY 118, STAFF OFFICE 119, AND STAFF LOUNGE 120. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION. SEE DETAIL #5 ON SHEET E502.
- (19) PROVIDE LIGHTING INVERTER. SEE INVERTER SCHEDULE ON SHEET E702.

- (20) ALL LIGHT FIXTURES IN THIS ROOM SHALL BE CIRCUITED AS INDICATED.
- (21) CIRCUIT LIGHT FIXTURE AS PART OF STAFF HALLWAY 118. SEE PLAN NOTE #18 THIS SHEET. (22) MOUNT EXIT SIGN WITH BOTTOM EDGE EVEN WITH BOTTOM EDGE OF MULLION
- ABOVE DOOR. INSTALL WIRING CONCEALED WITHIN STOREFRONT SYSTEM. COORDINATE INSTALLATION WITH CONTRACTOR RESPONSIBLE FOR STOREFRONT. PROVIDE EMERGENCY SECTION OF FIXTURE WITH EMERGENCY TRANSFER DEVICE TO TRANSFER SECTION TO INVERTER AND DRIVE DIMMING TO FULL ON IN THE EVENT OF FAILURE OF THE NORMAL LIGHTING CIRCUIT.
- 24) INSTALL EXTERIOR WALL MOUNTED FIXTURES WITH TOP OF FIXTURE AT +12-FEET ABOVE FINISHED BUILDING FLOOR ELEVATION.
- (25) PROVIDE CEILING MOUNTED MULTI-TECHNOLOGY OCCUPANCY SENSOR FOR CONTROL OF LIGHT FIXTURES IN CONFERENCE 109. SEE DETAIL #7 ON SHEET

E502

- (26) PROVIDE LOW-VOLTAGE SWITCH/0-10V CONTROLLER FOR ON/OFF CONTROL OF OCCUPANCY SENSOR LIGHTING IN CONFERENCE 109. SEE DETAIL #7 ON SHEET E502.
- PROVIDE OCCUPANCY SENSOR LIGHTING CONTROL RELAY FOR CONTROL OF LIGHT FIXTURES IN CONFERENCE 109. LOCATE ABOVE CEILING IN ACCESSIBLE LOCATION. SEE DETAIL #7 ON SHEET E502.
- (28) PENDANT MOUNT LIGHT FIXTURE AT +16'-6" A.F.F. TYPICAL TYPE 'LPA-12'.
- (29) PENDANT MOUNT LIGHT FIXTURE AT +16'-6" A.F.F. TYPICAL TYPE 'LPA-16'.
- (30) PENDANT MOUNT LIGHT FIXTURE AT +16'-6" A.F.F. TYPICAL TYPE 'LPA-18'.
- (31) PENDANT MOUNT LIGHT FIXTURE AT +12'-6" A.F.F. TYPICAL TYPE 'PAA'.

32) INSTALL RECESSED FIXTURE IN BOTTOM PANEL OF CANOPY CENTERED ON DOOR. COORDINATE INSTALLATION WITH STRUCTURAL FRAMING.

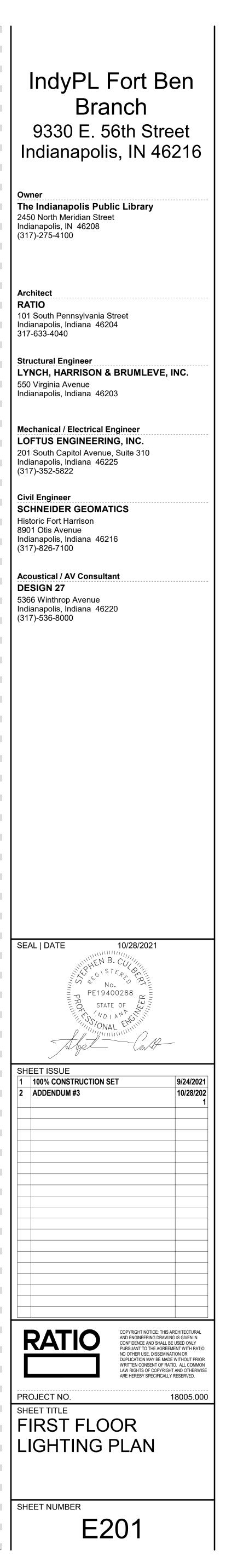
3) INSTALL SURFACE MOUNTED FIXTURES ON UNDERSIDE OF CANOPY BOTTOM PANEL. RECESS MOUNT JUNCTION BOX INSIDE CANOPY AND INSTALL WIRING CONCEALED WITHIN CANOPY. COORDINATE INSTALLATION WITH STRUCTURAL FRAMING.

(34) INSTALL MINIATURE, LOW-VOLTAGE TRACK LIGHTING IN TOP AND BOTTOM PANELS OF DISPLAY CASE. TRACK TO EXTENDED FROM SIDE-TO-SIDE. REFER TO ARCHITECTURAL DETAILS FOR INSTALLATION. COORDINATE WITH CONTRACTOR RESPONSIBLE FOR PROVIDING DISPLAY CASE.

(35) REFER TO SHEET ES101 FOR LIGHTING ALONG RAMP.

GENERAL NOTES:

- A. REFER TO SHEET E001 FOR GENERAL NOTES.
- B. COORDINATE AND VERIFY LOCATIONS AND MOUNTING HEIGHTS OF ALL DEVICES WITH ARCHITECTURAL DRAWINGS AND SHOP DRAWINGS PRIOR TO ROUGH-INS.



_	NG SURFACE	CF - COMPACT FLUORES			2. REFER TO SECTION 265100 "LIGHTING EQUIPMENT" AND SECTION 265200 "EMERGENCY LI 3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. CONSTRUCTION AND MATERIALS PRIOR TO SHOP DRAWING SUBMITTAL AND NOTIFY THE ARC								
CV - COVE		CMH - CERAMIC METAL	HALIDE		CONSTRUCTI	Ion and MA	ATERIAL	S PRIOR TO	SHOP DRAV	VING SUBM	ITTAL AND N	NOTIFY 1	THE
O - OTHE RE - RECE		FL - FLUORESCENT	חוטטב		FIXTURE) TRI (LIGHT FIXTU	IMS AND TR							
SP - SUSP		MH - METAL HALIDE	DIODE		4. REFER TO) LIGHTING	PLANS /	and panel	SCHEDULES	FOR VOLTA	AGE INFORM	ATION.	
S - SURFA		0 - OTHER (SEE DESCRI	PTION)		5. DEFINITIO					τη έλςη δι		ΙΙΜΤΝΑΤΙ	
	ER CABINET				 a. DESIGN BASIS MANUFACTURER: WHERE LISTED IN EACH RESPECTIVE LUMINAIRE SC REQUIREMENTS FOR THE LUMINAIRE TO BE FURNISHED. b. ACCEPTABLE MANUFACTURER: WHERE ACCEPTABLE MANUFACTURERS ARE LISTED I ACCEPTABLE AS EQUALS TO THE "DESIGN BASIS" MANUFACTURER LUMINAIRE PROVIDED THE 								
WL - WAL					ACCEPTABLE	AS EQUALS	5 to the	E "DESIGN E	Basis" Manu	FACTURER	LUMINAIRE	PROVID	DED 1
					6. PRODUCT SPECIFICATIO ITEM. THE S	ons inclui Sample sha	DING BU	IT NOT LIMI AIN ON FILE	ITED TO CON AS COMPAR	ISTRUCTIO	N, DESIGN, \ H THE MATEF	VISUAL A RIALS FL	APPE URN1
			1	DIMENCI						INPUT		1	
TYPE	DESCRIP	TION	L	W	IONS (MAX)	DIA	MTG	SOURCE	LUMENS (MIN)	WATTS (MAX)	EM WATTS (MAX)	(MIN)	_
DRA	6" SQUARE DOWNLIGHT HOUSING: 16 GAUGE COLD-ROL ALUMINUM MOUNTING GRIPS	LED STEEL DIE CAST	1' - 2 3/4"	1' - 2 3/4"	' 0' - 6"	0' - 0"	RE	LED	1624 L	19 W		80	3
	REFLECTOR: SPECULAR, 45 DEG	REE BEAM											
DRB	6" SQUARE DOWNLIGHT HOUSING: 16 GAUGE COLD-ROL	LED STEEL DIE CAST	1' - 2 3/4"	1' - 2 3/4"	0' - 6"	0' - 0"	RE	LED	1624 L	19 W		80	3
	ALUMINUM MOUNTING GRIPS REFLECTOR: SPECULAR, 45 DEG												
DRD	6" SQUARE DOWNLIGHT		1' - 2 3/4"	1' - 2 3/4"	' 0' - 6"	0' - 0"	RE	LED	906 L	12 W	+	80	3
	HOUSING: 16 GAUGE COLD-ROL ALUMINUM MOUNTING GRIPS			/ 1									
	REFLECTOR: SPECULAR, 45 DEG LOCATION: GENERAL	REE BEAM											
DSC	5" SQUARE SURFACE MOUNTED HOUSING: 16 GAUGE COLD-ROL		0' - 5"	0' - 5"	0' - 3 1/2"	0' - 0"	RE	LED	567 L	10 W		80	3
	ALUMINUM MOUNTING GRIPS REFLECTOR: SPECULAR, 45 DEG									\			
LPA-12	LOCATION: GENERAL AIRCRAFT CABLE SUSPENDED LI		12' - 0"	0' - 2 1/2"	' 0' - 2 1/2"	0' - 0"	SP	LED {	20964 L	216 W	<u>}</u>	80	3
	UNIT HOUSING: EXTRUDED ALUMINU	M WITH DIE-CAST							han ~	\downarrow			
	ENDCAPS AND FULLY ADJUSTAB	Y											
	REFLECTOR/LENS: HIGHLY REFL WHITE PAINTED COLD-ROLLED	STEEL REFLECTOR AND											
	FLUSH DIFFUSE SNAP-IN ACRYL SANDBLASTED FINISH.												
	DISTRIBUTION: 33% INDIRECT, LOCATION: GENERAL	U 70 DIREUI								June	2		
LPA-16	AIRCRAFT CABLE SUSPENDED LI	INEAR DIRECT/INDIRECT	16' - 0"	0' - 2 1/2"	' 0' - 2 1/2"	0' - 0"	SP	LED	27952 L	288 W	}	80	3
	HOUSING: EXTRUDED ALUMINU								مر	\sim	1		
	VERTICALLY AND HORIZONTALL REFLECTOR/LENS: HIGHLY REFL	Y											
	WHITE PAINTED COLD-ROLLED FLUSH DIFFUSE SNAP-IN ACRYL	STEEL REFLECTOR AND											
	SANDBLASTED FINISH. DISTRIBUTION: 33% INDIRECT,	67% DIRECT							_				
1.01	LOCATION: GENERAL		101	01 5						L m	2		-
LPA-18	AIRCRAFT CABLE SUSPENDED LI UNIT		18' - 0"	0' - 2 1/2"	' 0' - 2 1/2"	0' - 0"	SP	LED (31446 L	324 W	}	80	
	HOUSING: EXTRUDED ALUMINU ENDCAPS AND FULLY ADJUSTAB VERTICALLY AND HORIZONTALL	LE AIRCRAFT CABLE BOTH							اس	\downarrow			
	VERTICALLY AND HORIZONTALL REFLECTOR/LENS: HIGHLY REFL WHITE PAINTED COLD-ROLLED	ECTIVE DIE-FORMED											
	FLUSH DIFFUSE SNAP-IN ACRYL SANDBLASTED FINISH.												
	DISTRIBUTION: 33% INDIRECT/ LOCATION: GENERAL	'67% DIRECT											
LRA-24	4" RECESSED LINEAR DIRECT U	NIT	24' - 0"	0' - 2 1/2"	' 0' - 2 1/2"	0' - 0"	RE	LED	20208 L	170 W	+	80	
	HOUSING: EXTRUDED ALUMINU ENDCAPS	M WITH DIE-CAST											
	REFLECTOR/LENS: HIGHLY REFL WHITE PAINTED COLD-ROLLED	STEEL REFLECTOR AND											
	FLUSH DIFFUSE SNAP-IN ACRYL SANDBLASTED FINISH. DISTRIBUTION: DIRECT	LE LENG WITH FRUST UK											
	LOCATION: GENERAL												
LRB-4	4" RECESSED LINEAR PERIMETE HOUSING: EXTRUDED ALUMINU		4' - 0"	0' - 2 1/2"	0' - 2 1/2"	0' - 0"	RE	LED	1268 L	14 W		80	
	ENDCAPS REFLECTOR/LENS: HIGHLY REFL												
	WHITE PAINTED COLD-ROLLED FLUSH DIFFUSE SNAP-IN ACRYL SANDBLASTED FINISH.												
	DISTRIBUTION: DIRECT												
LRB-6	4" RECESSED LINEAR PERIMETE	R SLOT	6' - 0"	0' - 2 1/2"	' 0' - 2 1/2"	0' - 0"	RE	LED	1902 L	22 W	+	80	
	HOUSING: EXTRUDED ALUMINU ENDCAPS	M WITH DIE-CAST											
	REFLECTOR/LENS: HIGHLY REFL WHITE PAINTED COLD-ROLLED	STEEL REFLECTOR AND											
	FLUSH DIFFUSE SNAP-IN ACRYL SANDBLASTED FINISH.	IC LENS WITH FROST OR											
	DISTRIBUTION: DIRECT LOCATION: GENERAL												
LRB-17	4" RECESSED LINEAR PERIMETE HOUSING: EXTRUDED ALUMINU		17' - 0"	0' - 2 1/2"	' 0' - 2 1/2"	0' - 0"	RE	LED	5389 L	61 W	1	80	
	ENDCAPS REFLECTOR/LENS: HIGHLY REFL	ECTIVE DIE-FORMED											
	WHITE PAINTED COLD-ROLLED FLUSH DIFFUSE SNAP-IN ACRYL												
	SANDBLASTED FINISH. DISTRIBUTION: DIRECT LOCATION: GENERAL												
	LOCATION. GENERAL												
LRC-15	4" RECESSED LINEAR DIRECT U	NIT	15' - 3"	4' - 0"	5' - 0"	0' - 0"	RE	LED	11224 L	109 W	<u> </u>	80	
-10-13	HOUSING: EXTRUDED ALUMINU ENDCAPS		<u>د</u> - ر <u>ـ</u>	1 - 0	J ~ U	J U			±1227 L	102 10			
	REFLECTOR/LENS: HIGHLY REFL WHITE PAINTED COLD-ROLLED	STEEL REFLECTOR AND											
	FLUSH DIFFUSE SNAP-IN ACRYL SANDBLASTED FINISH.												
	DISTRIBUTION: DIRECT LOCATION: GENERAL												
LRC-20	4" RECESSED LINEAR DIRECT U		20' - 11"	4' - 0"	5' - 0"	0' - 0"	RE	LED	14965 L	145 W	+	80	
	HOUSING: EXTRUDED ALUMINU ENDCAPS REFLECTOR/LENS: HIGHLY REFL												
	WHITE PAINTED COLD-ROLLED												
	FLUSH DIFFUSE SNAP-IN ACRYL												1
	FLUSH DIFFUSE SNAP-IN ACRYL SANDBLASTED FINISH. DISTRIBUTION: DIRECT												

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GENERAL NOTES

LIGHT FIXTURE) INFORMATION AND REQUIREMENTS. ITING EQUIPMENT" FOR ADDITIONAL RELATED LIGHTING EQUIPMENT REQUIREMENTS.

ONTRACTOR TO VERIFY COMPATIBILITY OF LUMINAIRES (LIGHT FIXTURES) WITH CEILING MATERIAL, ADJACENT FINISHES, ADJACENT TECT AND ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION. CONTRACTORS TO COORDINATE ALL LUMINAIRE (LIGHT D AS SUCCESSFULLY AWARDED, PURCHASED CEILING SYSTEMS. MULTIPLE TRIM COLORS AND TILES MAY BE NEEDED FOR EACH LUMINAIRE

JLE, THE "DESIGN BASIS" MANUFACTURER MODEL SERIES NUMBER SHALL SERVE TO INDICATE THE LEVEL OF QUALITY AND MINIMUM H RESPECTIVE LUMINAIRE SCHEDULE, THIS SHALL BE INTERPRETTED TO MEAN THAT LUMINAIRES BY THE LISTED MANUFACTURERS WILL BE HE MANUFACTURER DEMONSTRATES FULL COMPLIANCE WITH ALL OF THE REQUIREMENTS CONTAINED IN THESE CONTRACT DOCUMENTS. ERING SAMPLE PRODUCT OF EACH AND EVERY LUMINAIRE FOR INSPECTION. SAMPLES SUBMITTED SHALL BE IN FULL COMPLIANCE WITH THE E, AND PERFORMANCE. THE MANUFACTURER SHALL HAVE PREVIOUSLY BUILT THE LUMINAIRE AND THE LUMINAIRE SHALL BE A PRODUCTION ON THE PROJECT. MATERIALS NOT EQUAL TO THE APPROVED SAMPLE WILL BE REJECTED. CES".>>>>

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(DRIVER D-10V DIMMING	FINISH AS SELECTED BY ARCHITECT	LISTING UL LISTED FOR DAMP LOCATIONS	DESIGN BASIS MANUFACTURER PRESCOLITE "LTR-6SQD" SERIES	ACCEPTABLE MANUFACTURER 1. GOTHAM 2. PORTFOLIO	REMARKS	TYPE LRD-20	DESCRIPTION 2" WIDE RECESSED LINEAR TRACK HOUSING: EXTRUDED ALUMINUM. LIGHT FIXTURE ASSEMBLIES TO INST
(0-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	PRESCOLITE "LTR-6SQD" SERIES	1. GOTHAM 2. PORTFOLIO			TRACK. LOCATION: DISPLAY CASE PROVIDE WITH TRACK HEAD FIXTUE
. ()-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR WET LOCATIONS	PRESCOLITE "LTR-6SQD" SERIES	1. GOTHAM 2. PORTFOLIO		LSA-4	4" SURFACE MOUNT LINEAR DIRECT HOUSING: EXTRUDED ALUMINUM WI ENDCAPS AND FULLY ADJUSTABLE AI VERTICALLY AND HORIZONTALLY
()-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR WET LOCATIONS	PERFORMANCE IN LIGHTING "MIMIK 10" SERIES	1. GOTHAM 2. PORTEOLIO 3. HALO COMMERCIAL	2		REFLECTOR/LENS: HIGHLY REFLECTI WHITE PAINTED COLD-ROLLED STEE FLUSH DIFFUSE SNAP-IN ACRYLIC LE SANDBLASTED FINISH. DISTRIBUTION: DIRECT LOCATION: GENERAL
. ()-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	TINELITE "HP-4ID" SERIES	1. PINNACLE 2. FOCAL POINT	1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND	PAA RCA-14	DECORATIVE PENDANT MOUNT ROUN HOUSING: LAMINATED WOOD/FABRI LENS: POLYCARBONATE FROSTED BC DISTRIBUTION: WIDE LOCATION: GENERAL 2X2 RECESSED CEILING TROFFER WI HOUSING: DIE-FORMED COLD-ROLLE REFLECTOR/LENS: HIGH-REFLECTANC
	0-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	FINELITE "HP-4ID" SERIES	1. PINNACLE 2. FOCAL POINT	SHALL NOT EXCEED 8'-0" IN LENGTH. 1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN	RCA-22	REFLECTOR WITH ACRYLIC FROSTED DISTRIBUTION: DIRECT LOCATION: GENERAL 2X2 RECESSED CEILING TROFFER WI HOUSING: DIE-FORMED COLD-ROLLE REFLECTOR/LENS: HIGH-REFLECTAND REFLECTOR WITH ACRYLIC FROSTED DISTRIBUTION: DIRECT LOCATION: GENERAL DOUBLE HEAD ARM MOUNT AT 180-E WITH 20 FT POLE MOUNTING: TWIN ARM MOUNT HOUSING: DIE-CAST ALUMINUM WIT
	D-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	FINELITE "HPX-ID" SERIES		LENGTH. 1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN LENGTH.	V2	HARDWARE POLE: 5" ROUND, .188" THICK, STRA ALLOY WITH CAST ALUMINUM ALLOY ALUMINUM BOLT COVERS. FIXTURE ARM MOUNT. OPTICS: FULLY GASKETED CLEAR LEN DISTRIBUTION: TYPE V - WIDE (ROU LOCATION: PARKING LOT SINGLE HEAD ARM MOUNT AREA ASS POLE MOUNTING: ARM MOUNT HOUSING: DIE-CAST ALUMINUM WIT HARDWARE
. ()-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	FINELITE "HP4R" SERIES		1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN	WMA	POLE: 5" ROUND, .188" THICK, STRA ALLOY WITH CAST ALUMINUM ALLOY ALUMINUM BOLT COVERS. FIXTURE ARM MOUNT. OPTICS: FULLY GASKETED CLEAR LEN DISTRIBUTION: TYPE IV LOCATION: PARKING LOT SQUARE WALL MOUNT HIGH EFFICIE HOUSING: EXTRUDED ALUMINUM OPTICS: SPECULAR REFLECTOR AND ACRYLIC. DISTRIBUTION: 45 DEGREE CUTOFF
	0-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	FINELITE "HP-WS" SERIES	1. PINNACLE 2. FOCAL POINT	LENGTH. 1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN LENGTH.	WMB WMC	DISTRIBUTION: 45 DEGREE CUTOFF LOCATION: GENERAL SQUARE WALL MOUNT HIGH EFFICIE HOUSING: EXTRUDED ALUMINUM OPTICS: SPECULAR REFLECTOR AND ACRYLIC. DISTRIBUTION: 45 DEGREE CUTOFF LOCATION: GENERAL LOW PROFILE LINEAR STEP LIGHT HOUSING: EXTRUDED ALUMINUM OPTICS: SPECULAR REFLECTOR AND ACRYLIC. DISTRIBUTION: 45 DEGREE CUTOFF
)-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	FINELITE "HP-WS" SERIES		1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN LENGTH.	WMD XCX	LOCATION: GENERAL SQUARE WALL MOUNT HIGH EFFICIE HOUSING: EXTRUDED ALUMINUM OPTICS: SPECULAR REFLECTOR AND ACRYLIC. DISTRIBUTION: 45 DEGREE CUTOFF LOCATION: GENERAL CEILING MOUNTED CAST ALUMINUM FINISH: WHAITE PAINTED. ARROWS/LETTERING COLOR: GREEN SPECIAL NOTE: ARROWS TO BE AS S
. ()-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS		2. FOCAL POINT	1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN	XWX	DRAWINGS OR AS REQUIRED. THE L OR DOUBLE FACED AS SHOWN ON TH REQUIRED. THE UNIT SHALL BE CO UNIVERSAL CANOPY TO ALLOW FOR END MOUNTING AS REQUIRED. THE VERIFY ALL SINGLE OR DOUBLE FACE ARROW REQUIREMENTS AND MOUNT LOCATION: GENERAL. WALL MOUNTED CAST ALUMINUM EX FINISH: WHAITE PAINTED. ARROWS/LETTERING COLOR: GREEN SPECIAL NOTE: ARROWS TO BE AS S
	D-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS		2 FOCAL POINT	LENGTH. 1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN		DRAWINGS OR AS REQUIRED. THE L OR DOUBLE FACED AS SHOWN ON TH REQUIRED. THE UNIT SHALL BE CO UNIVERSAL CANOPY TO ALLOW FOR END MOUNTING AS REQUIRED. THE O VERIFY ALL SINGLE OR DOUBLE FACE ARROW REQUIREMENTS AND MOUNT LOCATION: GENERAL.
)-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	FLUXWERX "NOTCH" SERIES	2 FOCAL POINT 3. LUMENWERX	LENGTH. 1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN LENGTH.		

O - OTHER (SEE DESCRIPTION) FL - FLUORESCENT RE - RECESSED LED - LIGHT EMITTING DIODE 4. REFER TO LIGHTING PLANS AND PANEL SCHEDULES FOR VOLTAGE INFORMATION. SP - SUSPENDED MH - METAL HALIDE 5. DEFINITIONS: S - SURFACE O - OTHER (SEE DESCRIPTION) a. DESIGN BASIS MANUFACTURER: WHERE LISTED IN EACH RESPECTIVE LUMINAIRE SCHEDULE, THE "DESIGN BASIS" MANUFACTURER MODEL SERIES NUMBER SHALL SERVE TO INDICATE THE LEVEL OF QUALITY AND MINIMUM REQUIREMENTS FOR THE LUMINAIRE TO BE FURNISHED. UC - UNDER CABINET b. ACCEPTABLE MANUFACTURER: WHERE ACCEPTABLE MANUFACTURERS ARE LISTED IN EACH RESPECTIVE LUMINAIRE SCHEDULE, THIS SHALL BE INTERPRETTED TO MEAN THAT LUMINAIRES BY THE LISTED MANUFACTURERS WILL BE ACCEPTABLE AS EQUALS TO THE "DESIGN BASIS" MANUFACTURER LUMINAIRE PROVIDED THAT THE MANUFACTURER DEMONSTRATES FULL COMPLIANCE WITH ALL OF THE REQUIREMENTS CONTAINED IN THESE CONTRACT DOCUMENTS. WL - WALL 6. PRODUCT SAMPLES: THE ENGINEER/DESIGNER RESERVES THE RIGHT TO REQUEST AN ENGINEERING SAMPLE PRODUCT OF EACH AND EVERY LUMINAIRE FOR INSPECTION. SAMPLES SUBMITTED SHALL BE IN FULL COMPLIANCE WITH (317)-275-4100 THE SPECIFICATIONS INCLUDING BUT NOT LIMITED TO CONSTRUCTION, DESIGN, VISUAL APPEARANCE, AND PERFORMANCE. THE MANUFACTURER SHALL HAVE PREVIOUSLY BUILT THE LUMINAIRE AND THE LUMINAIRE SHALL BE A PRODUCTION ITEM. THE SAMPLE SHALL REMAIN ON FILE AS COMPARISON WITH THE MATERIALS FURNISHED ON THE PROJECT. MATERIALS NOT EQUAL TO THE APPROVED SAMPLE WILL BE REJECTED. <<<<7. CASH ALLOWANCES: SEE SPECIFICATION SECTION 265100 PARAGRAPH 1.7 "ALLOWANCES".>>>> DIMEN 20' - 0" 0'-1 | 13/3 INSTALL INTO RECESSED TUES AS INDICATED CT UNIT 4' - 0" 0' - 4" WITH DIE-CAST E AIRCRAFT CABLE BOTH CTIVE DIE-FORMED TEEL REFLECTOR AND CLENS WITH FROST OR OUND DRUM FIXTURE 0' - 0" 1' - 5" BOTTOM LENSES WITH CENTER OPTIC 4' - 0" 1' - 0" LLED CODE GAUGE STEEL ANCE SHEET METAL TED CENTER OPTIC LENS WITH CENTER OPTIC 2' - 0" 2' - 0" LLED CODE GAUGE STEEL ANCE SHEET METAL TED CENTER OPTIC LENS 30-DEG. AREA ASSEMBLY 1' - 10" 1' - 10 WITH STAINLESS STEEL FRAIGHT ALUMINUM LOY BASE AND IRE HEAD TO ATTACH VIA LENS ROUND) ASSEMBLY WITH 15 FT 1' - 10" 1' - 10" WITH STAINLESS STEEL FRAIGHT ALUMINUM LOY BASE AND IRE HEAD TO ATTACH VIA LENS CIENCY WEDGE LIGHT 0' - 11 1/2" 0' - 7" ND CLEAR SCREEN CIENCY WEDGE LIGHT 0' - 11 1/2" 0' - 7" ND CLEAR SCREEN)FF 0' - 11 0' - 2 3/16" ND CLEAR SCREEN FF CIENCY WEDGE LIGHT 0' - 11 1/2" 0' - 7" ND CLEAR SCREEN)FF 1' - 1" 0' - 2" UM EXIT SIGN. EEN. AS SHOWN ON HE UNIT SHALL BE SINGLE IN THE DRAWINGS OR AS COMPLETE WITH OR CEILING, WALL OR HE CONTRACTOR SHALL ACE REQUIREMENTS,

UNTING REQUIREMENTS 1 EXIT SIGN. EN. AS SHOWN ON IE UNIT SHALL BE SINGLE N THE DRAWINGS OR AS E COMPLETE WITH FOR CEILING, WALL OR

HE CONTRACTOR SHALL ACE REQUIREMENTS, UNTING REQUIREMENTS.

CF - COMPACT FLUORESCENT

CMH - CERAMIC METAL HALIDE

SOURCE

ABBREVIATIONS

MOUNTING (MTG)

CL - CEILING SURFACE

CV - COVE

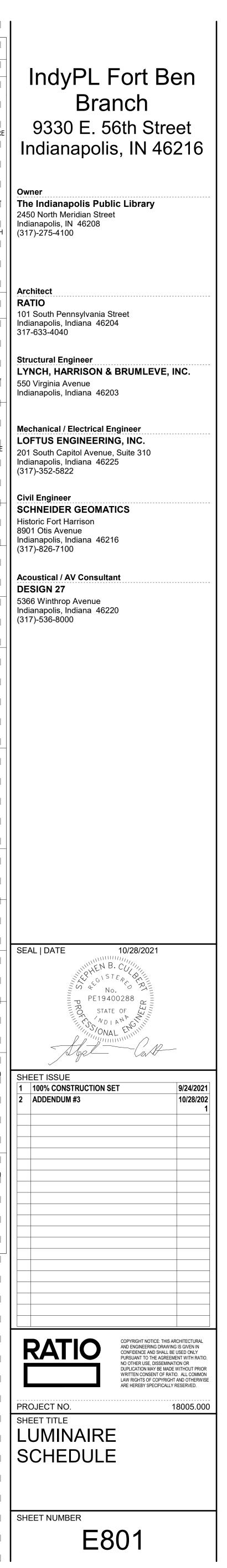
LUMINAIRE (LIGHT FIXTURE) SCHEDULE - CONTINUED

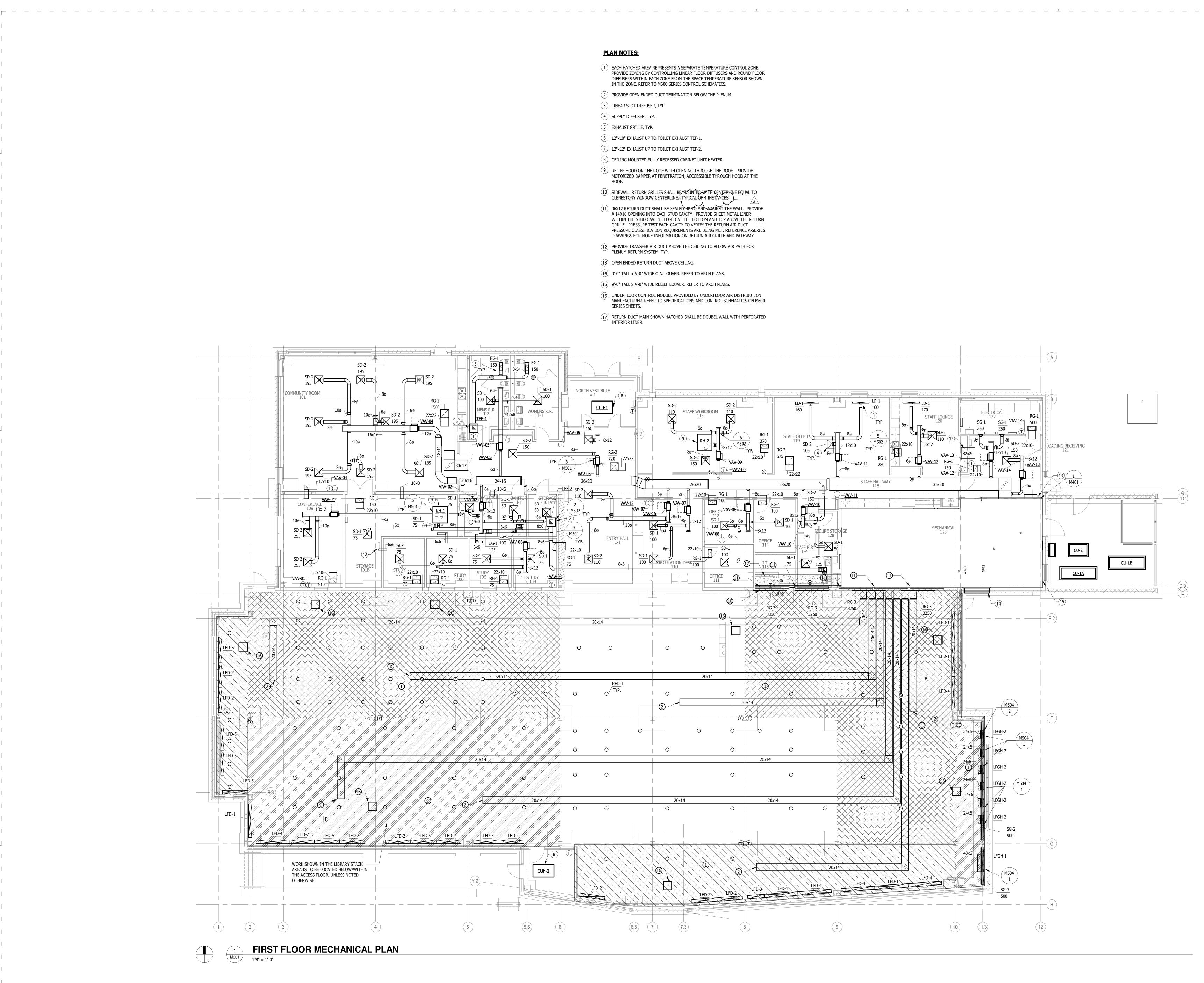
GENERAL NOTES

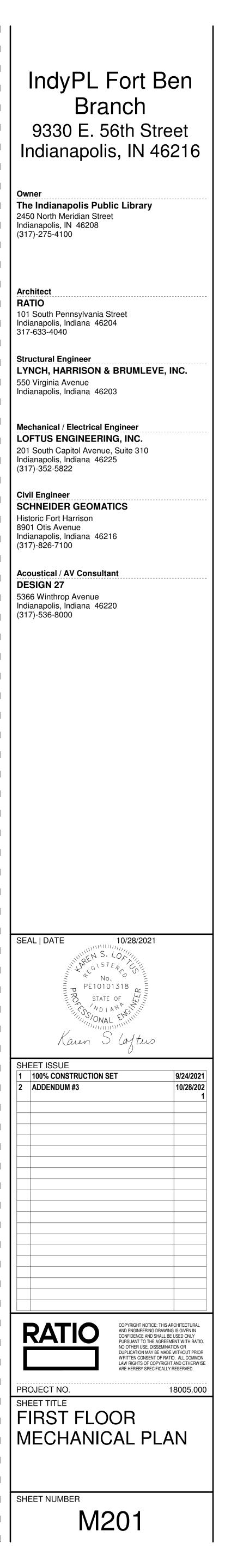
I. REFER TO SPECIFICATION SECTION 265113 "LUMINAIRE LIST" FOR ADDITIONAL LUMINAIRE (LIGHT FIXTURE) INFORMATION AND REQUIREMENTS. 2. REFER TO SECTION 265100 "LIGHTING EQUIPMENT" AND SECTION 265200 "EMERGENCY LIGHTING EQUIPMENT" FOR ADDITIONAL RELATED LIGHTING EQUIPMENT REQUIREMENTS.

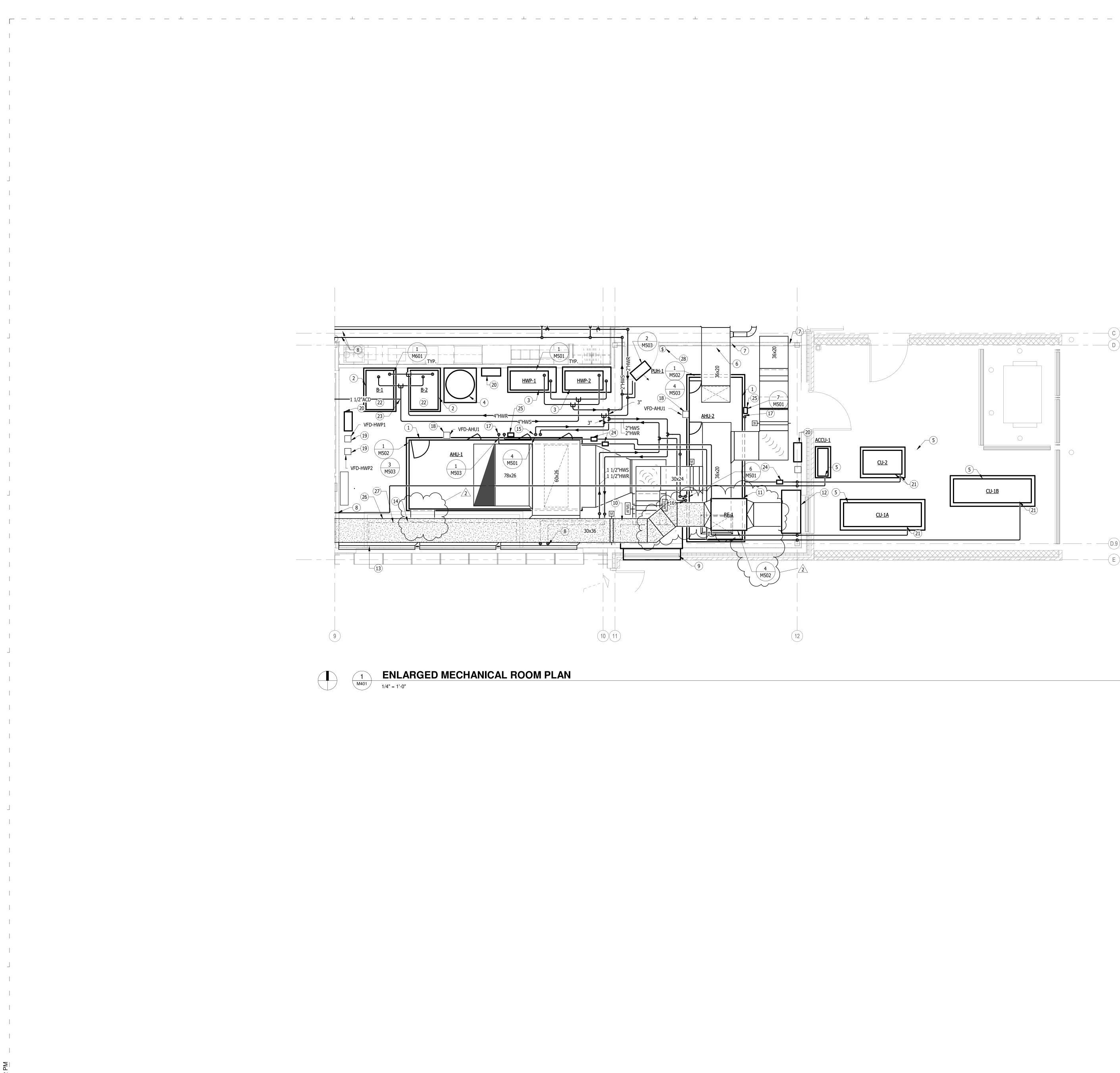
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES AND HEIGHTS. CONTRACTOR TO VERIFY COMPATIBILITY OF LUMINAIRES (LIGHT FIXTURES) WITH CEILING MATERIAL, ADJACENT FINISHES, ADJACENT
 CONSTRUCTION AND MATERIALS PRIOR TO SHOP DRAWING SUBMITTAL AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION. CONTRACTORS TO COORDINATE ALL LUMINAIRE (LIGHT
FIXTURE) TRIMS AND TRIM FINISHES TO MATCH THE CEILING SYSTEMS, BOTH AS SPECIFIED AND AS SUCCESSFULLY AWARDED, PURCHASED CEILING SYSTEMS. MULTIPLE TRIM COLORS AND TILES MAY BE NEEDED FOR EACH LUMINAIRE
 (LIGHT FIXTURE) TYPE.

		DIMENSIONS (MAX)				INPUT											
	L	W	Н	DIA	MTG		LUMENS (MIN)	WATTS (MAX)	EM WATTS (MAX)	CRI (MIN)	ССТ	DRIVER	FINISH	LISTING	DESIGN BASIS MANUFACTURER	ACCEPTABLE	
ED	20' - 0"	0' - 1 13/32"	0' - 3 13/32"	0' - 0"	RE	LED				-	-	0-10V DIMMING	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	LITELINE KIICK SERIES LV TRACK	2	1. INSTALL TRACK RECESS MOUNTED IN TOP AND BOTTOM OF DISPLAY CASE. 2. PROVIDE (15) 24" "KL-BAR" (600 L) LINEAR FLOODLIGHT FIXTURES. 3. PROVIDE (6) "ADJUSTABLE 20-DEG SPOT" (550 L) SPOTLIGHT FIXTURES.
TH	4' - 0"	0' - 4"	0' - 4"	0' - 0"	S	LED	3300 L	27 W		80	3500K	0-10V DIM	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	COLUMBIA "MPS" SERIES		1. THE LENS SHALL BE PROVIDED IN INDIVIDUAL SECTIONS OF OVERALL LENGTH REQUIRED FOR A CONTINUOUS APPEARANCE THE ENTIRE LENGTH OF THE COMPLETE UNIT. ANY INDIVIDUAL SECTION OF LENS SHALL NOT BE SHORTER THAN 4'-0" AND SHALL NOT EXCEED 8'-0" IN LENGTH.
	0' - 0"	1' - 5"	0' - 8"	3' - 0"	SP	LED	6569 L	112 W		80	3500K	0-10V DIM	AS SELECTED BY ARCHITECT	UL LISTED FOR DAMP LOCATIONS	BARBICAN "DOUBLE DEVO"		1. CONTRACTOR TO INCLUDE INSTALLAITON IN BID. 2. FIXTURES FURNISHED
eel Ns	4' - 0"	1' - 0"	0' - 4"	0' - 0"	RE	LED	3397 L	29 W		80	3500 K	0-10V DIM	WHITE POWDER COAT FINISH, PAINTED AFTER FABRICATION.	UL LISTED FOR DAMP LOCATIONS	FINELITE "HPR LED" SERIES	1. MARK LIGHTING	UNDER AN ALLOWANCE.
EEL NS	2' - 0"	2' - 0"	0' - 4"	0' - 0"	RE	LED	3397 L	29 W		80	3500K	0-10V DIM	WHITE POWDER COAT FINISH, PAINTED AFTER FABRICATION.	UL LISTED FOR DAMP LOCATIONS	FINELITE "HPR LED" SERIES		1. ALL ELECTRICAL COMPONENTS ACCESSIBLE FROM BELOW.
LY L VIA	1' - 10"	1' - 10"	0' - 4"	0' - 0"	0	LED	(2) 8822 L	(2) 85 W		70	3000K	ELECTRONIC	AS SELECTED BY ARCHITECT	UL LISTED FOR WET LOCATIONS	KIM "ALT1' TYPE V - WIDE WITH 2SB MOUNT	1. BEGA 2. MCGRAW-EDISO 3. LITHONIA	1. 20-FOOT ROUND POLE.
T L VIA	1' - 10"	1' - 10"	0' - 4"	0' - 0"	0	LED	9171 L	85 W		70	3000К	ELECTRONIC	AS SELECTED BY ARCHITECT	UL LISTED FOR WET LOCATIONS	KIM "ALT1" type 4	1. BEGA 2. MCGRAW-EDISO 3. LITHONIA	 1. 15-FOOT ROUND POLE.
-	0' - 11 1/	2" 0' - 7"	0' - 9"	0' - 0"	WL	LED	1964 L	18 W		70	3000K	ELECTRONIC	AS SELECTED BY ARCHITECT	UL LISTED FOR WET {	HUBBELL "TRP1 GeoPaK } TRAPEZOID" SERIES	1. BEGA 2. MCGRAW-EDISO N 3. LITHONIA }	1. TYPE III DISTRIBUTION 2. IP68 RATED.
-	0' - 11 1/	2" 0' - 7"	0' - 9"	0' - 0"	WL	LED	1922 L	18 W		70	3000К	ELECTRONIC	AS SELECTED BY ARCHITECT		HUBBELL "TRP1 GeoPaK) TRAPEZOID" SERIES	1. BEGA	1. TYPE IV DISTRIBUTION 2. IP68 RATED.
	0' - 11 3/16"	0' - 2 3/4"	0' - 2 9/16"	0' - 0"	WL	LED	116 L	11 W		70	3000K	ELECTRONIC	AS SELECTED BY ARCHITECT	LOCATIONS	DELTA LIGHT "304 32 01 83"	1. BEGA 2. MCGRAW-EDISO N	1. TYPE III DISTRIBUTION 2. IP68 RATED.
-	0' - 11 1/	2" 0' - 7"	0' - 9"	0' - 0"	WL	LED	3062 L	32 W		70	3000K	ELECTRONIC	AS SELECTED BY ARCHITECT	UL LISTED FOR WET LOCATIONS	HUBBELL "TRP1 GeoPaK) TRAPEZOID" SERIES	1. BEGA 2. MCGRAW-EDISO N 3. LITHONIA	1. TYPE IV DISTRIBUTION 2. IP68 RATED.
GLE AS	1' - 1"	0' - 2"	0' - 9"	0' - 0"	CL	LED		2W	2W				WHITE	UL 924 LISTED	DUAL LITE "SE" SERIES		1. PROVIDE SELF-DIAGNOSTICS. 2. LED TO BE RATED FOR 20 YEAR LIFE.
GLE AS	1' - 1"	0' - 2"	0' - 9"	0' - 0"	WL	LED		2W	2W				WHITE	UL 924 LISTED	DUAL LITE "SE" SERIES		1. PROVIDE SELF-DIAGNOSTICS. 2. LED TO BE RATED FOR 20 YEAR LIFE.



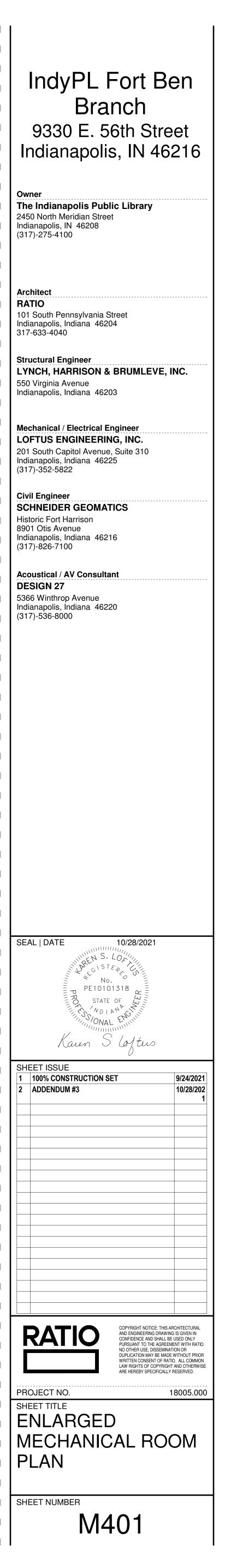


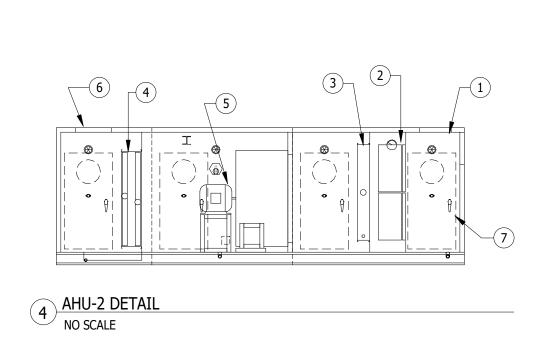




PLAN NOTES:

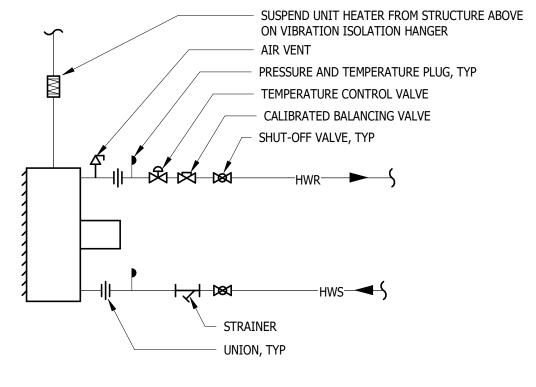
- (1) PROVIDE AIR HANDLING UNIT ON 6" CONCRETE HOUSEKEEPING PAD.
- 2 PROVIDE BOILER ON 4" HOUSEKEEPING PAD.
- 3 PROVIDE HEATING WATER PUMP ON 4" HOUSEKEEPING PAD.
- (4) PROVIDE HEATING WATER EXPANSION TANK ON 4" HOUSEKEEPING PAD.
- (5) PROVIDE AIR COOLED CONDENSING UNIT IN MECHANICAL YARD ON CONCRETE PAD. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE PAD DETAILS.
- (6) REFER TO PLUMBING PLANS FOR FIRE PROTECTION AND DOMESTIC WATER BACKFLOW
- PREVENTERS AND PLUMBING WORK IN THIS AREA.
- (7) SEE SHEET M201 FOR DUCT CONTINUATION.
- (8) SEE SHEET M301 FOR PIPE CONTINUATION.
- (9) 72" W X 96" H LOUVER. PROVIDE 30" DEEP OA DOUBLE WALL PLENUM. PLENUM SHALL BE 2" THICK WITH INSULATION ENCAPSULATED BETWEEN WALLS. SET UNIT ON 3" WIDE X 4" TALL CONCRETE CURB. TOP OF PLENUM SHALL BE AT 7"-0" AFF. BLANK OFF TOP TWO FEET OF LOUVER WITH INSULATED PANEL.
- (10) CONNECT 30X24 OA DUCT FROM AHU-2 AND 42X26 OA DUCT FROM AHU-1 TO OA PLENUM.
- (11) PROVIDE RELIEF FAN SUSPENDED FROM THE STRUCTURE ABOVE.
- 12) PROVIDE DOUBLE WALL SHEET METAL PLENUM WITH 2" INSULATION ENCAPSULATED BETWEEN WALLS. SET UNIT ON 3" WIDE X 4" TALL CONCRETE CURB. FLOOR OF THE PLENUM SHALL BE THE MECHANICAL ROOM FLOOR. THE PLENUM SHALL BE 2'-0" WIDE AND 13'-0" TALL.
- (13) PROVIDE DOUBLE WALL SHEET METAL ACOUSTICAL SUPPLY AIR PLENUM WITH 2" INSULATION ENCAPSULATED BETWEEN WALLS AND PERFORATED INNER WALL. SET THE PLENUM WITHIN THE FLOOR RECESS TO ACCEPT THE DUCTS SHOWN ON M201 BELOW THE ACCESS FLOOR. PLENUM SHALL BE 2'-6" WIDE AND 11"-2" TALL.
- (14) CONNECT SUPPLY AIR DUCTWORK TO SIDE OF DOUBLE WALL SHEET METAL PLENUM WITH DOUBLE WALL DUCTWORK.
- (15) 2" HWS AND 2" HWR TO AIR HANDLING UNIT HEATING COIL
- (16) 1-1/4" HWS AND 1-1/4" HWR TO AIR HANDLING UNIT HEATING COIL.
- (17) refrigerant piping to air handling unit cooling coil. Size per manufacturer's RECOMMENDATIONS.
- (18) PROVIDE VARIABLE FREQUENCY DRIVE. INSTALL ATTACHED TO AIR HANDLING UNIT.
- (19) PROVIDE WALL MOUNTED VARIABLE FREQUENCY DRIVE FOR HEATING WATER PUMP.
- (20) PROVIDE TEMPERATURE CONTROL PANEL IN THIS LOCATION.
- (21) EACH LINE SHOWN REPRESENTS ONE SET OF REFRIGERANT LIQUID AND REFIRGERANT SUCTION LINES FROM THE CONDENSING UNIT TO THE INDOOR COOLING COIL. PROVIDE PIPE SIZING AS RECOMMENDED BY THE UNIT MANUFACTURER.
- (22) BOILER FLUE AND COMBUSTION AIR INTAKE UP THROUGH THE ROOF.
- (23) PIPE ACD TO OVER FLOOR DRAIN.
- (24) EEV MODULE FURNISHED AS PART OF THE AHU CONVERSION KIT BY CONDENSING UNIT
- MANUFACTURER. REFER TO SPECIFICATIONS. (25) COMMUNICATION MODULE FURNISHED AS PART OF THE AHU CONVERSION KIT BY CONDENSING
- UNIT MANUFACTURER. REFER TO SPECIFICATIONS.
- (26) HATCHED RETURN DUCTWORK SHALL BE DOUBLE WALL WITH PERFORATED INNER LINER.
- $(\overline{27})$ close the annular space around the sheet metal acoustical plenum and the CONCRETE CURB WITH A STEEL ANGLE AND SEAL AIR TIGHT. SEAL THE ACOUSTICAL PLENUM TO THE WALL BELOW THE RAISED FLOOR. FINAL INSTALLATION SHALL PREVENT SUPPLY AIR FROM BACK FEEDING THROUGH THE FLOOR RECESS INTO THE MECHANICAL ROOM. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
- (28) LOCATE CSD-1 BOILER EMERGENCY SHUTOFF SWITCH ON WALL ADJACENT TO DOOR.

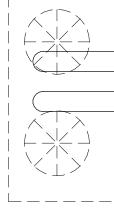


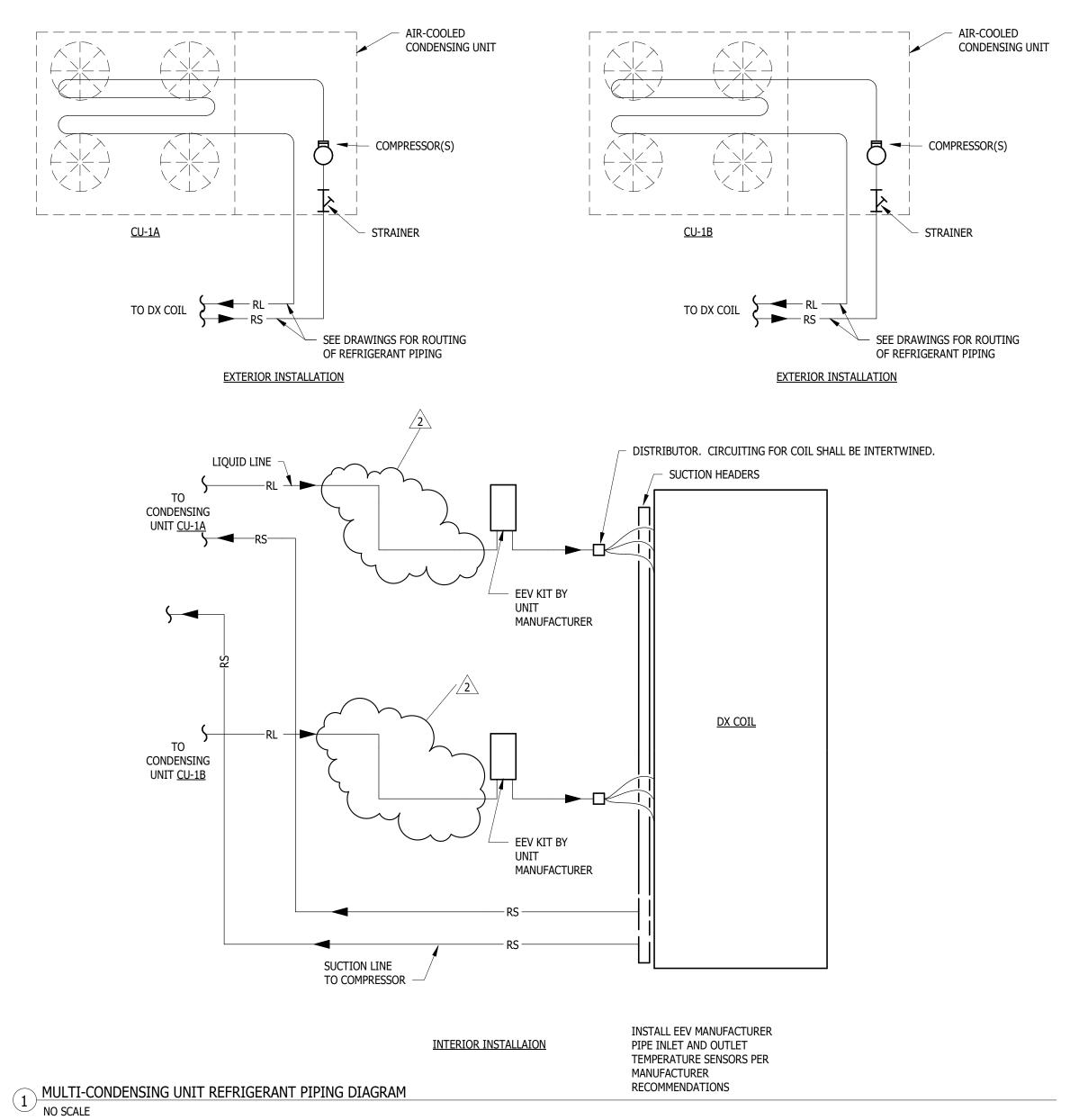


- (7) access door, typ.
- (6) SUPPLY AIR DISCHARGE
- (4) DX COOLING COIL 5 SUPPLY FAN
- (3) HOT WATER HEATING COIL
- 1 MIXED AIR INLET 2 FILTER
- NOTES:

2 HOT WATER UNIT HEATER/CABINET HEATER PIPING NO SCALE

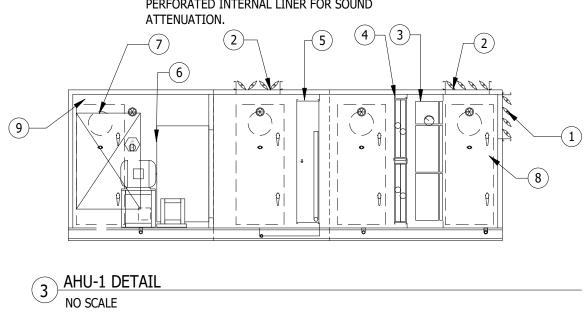


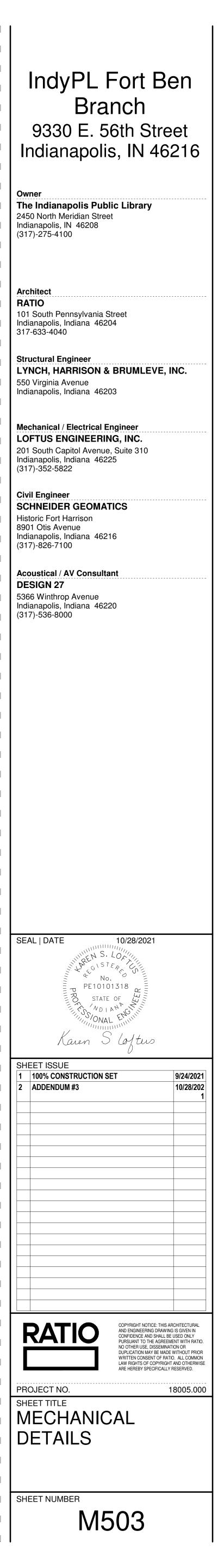


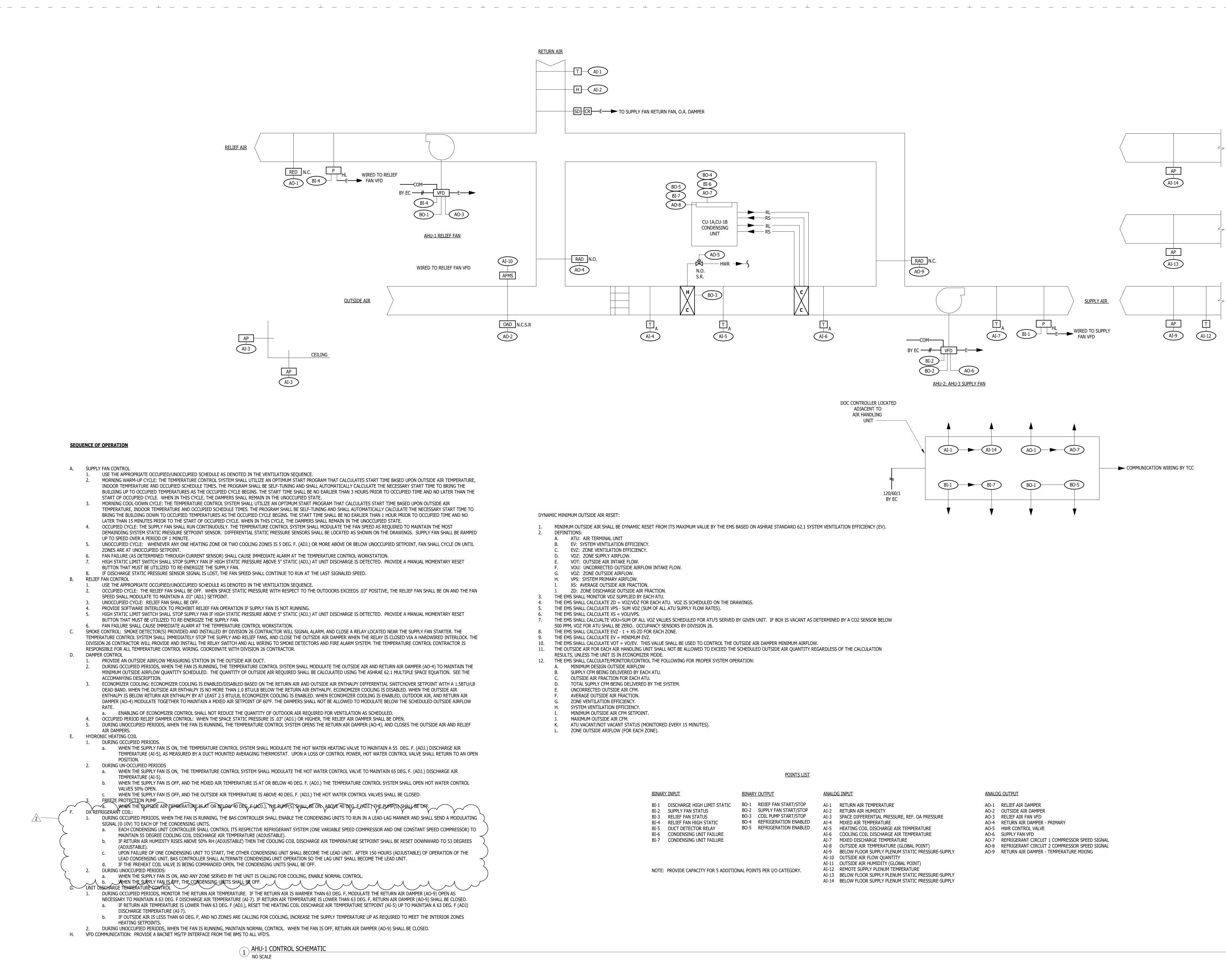


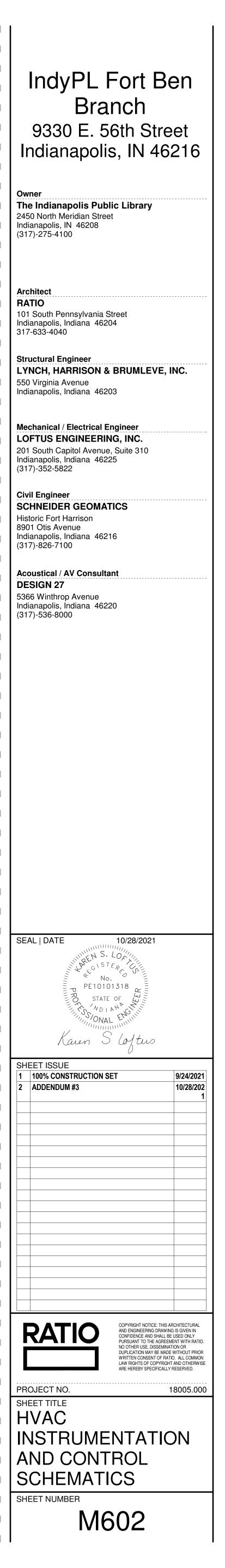


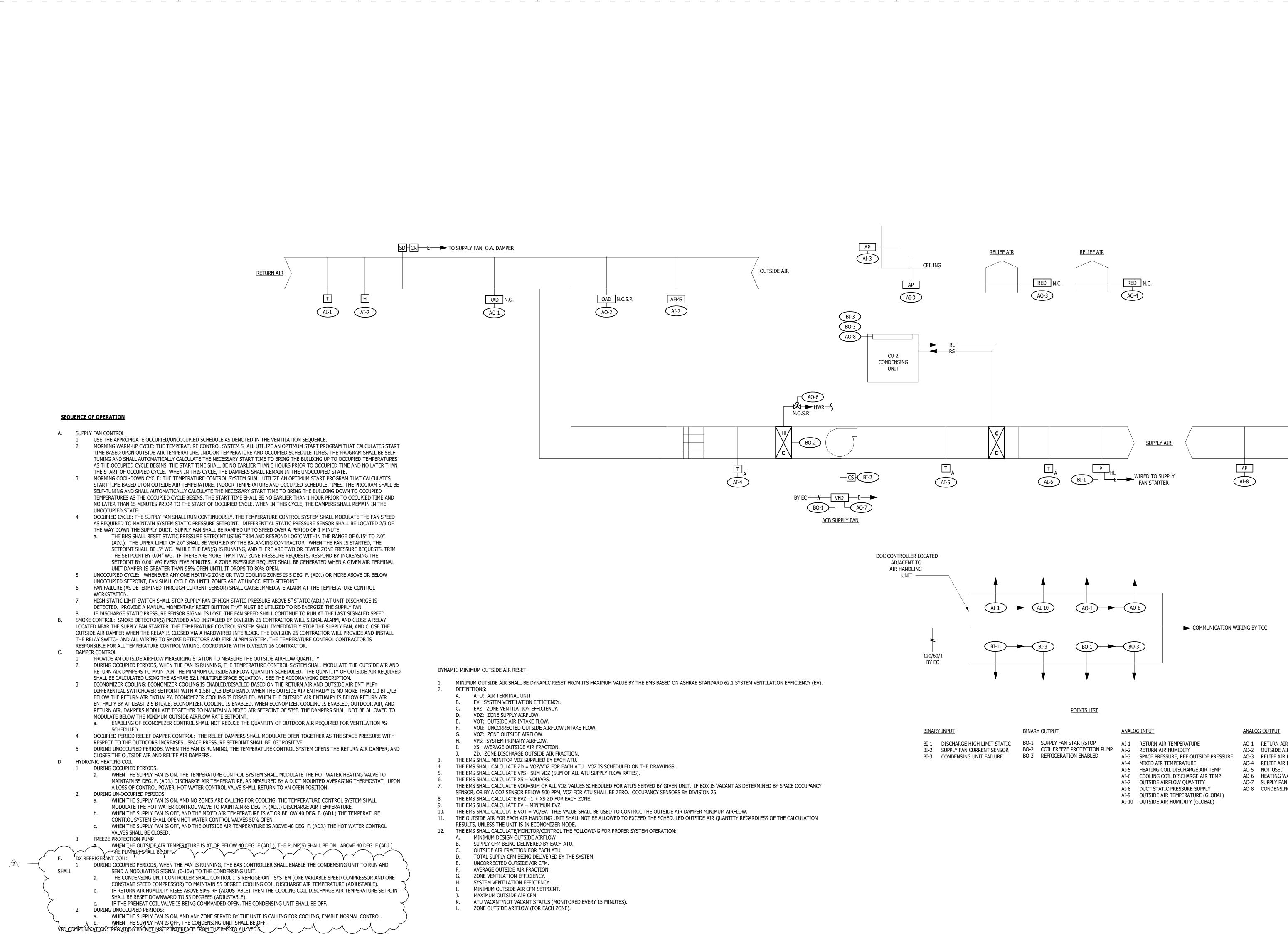
- 1 OUTSIDE AIR DAMPER
- 2 RETURN AIR DAMPER
- (3) FILTER
- (4) HOT WATER HEATING COIL
- 5 DX COOLING COIL
- 6 SUPPLY FAN
- 7 SUPPLY AIR DISCHARGE, SIDE OF THE UNIT. 32" W X 48" HIGH
- 8 ACCESS DOOR, TYP.
- 9 SUPPLY FAN DISCHARGE PLENUM SHALL HAVE PERFORATED INTERNAL LINER FOR SOUND







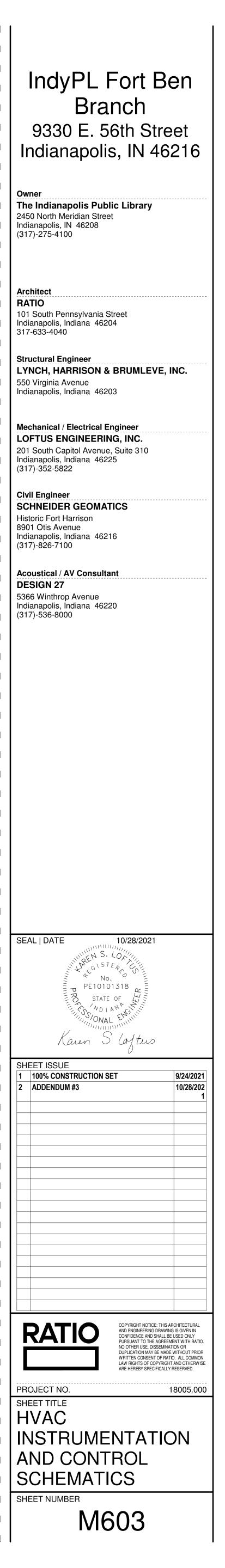




AHU-2 CONTROL SCHEMATIC

NO SCALE

AO-1	RETURN AIR DAMPER
AO-2	OUTSIDE AIR DAMPER
AO-3	RELIEF AIR DAMPER 1
AO-4	RELIEF AIR DAMPER 2
AO-5	NOT USED
AO-6	HEATING WATER CONTROL VALVE
AO-7	SUPPLY FAN SPEED
AO-8	CONDENSING UNIT CU-2 COMPRESSOR SPEED SIGNAL



						_				SUPPLY FA
TAG	LOCATION	AREA SERVED	TYPE	TOTAL CFM	OA CFM		TYPE		TSP (IN WG)	ESP (IN
AHU-1	MECH	STACK AREA	VAV	13,000	3860	DIRECT DRIVE IN	TEGRAL ATTENUAT	ION PLENUM FAN	4.3	2.0
AHU-2	MECH	ADMIN	VAV	6,000	1600	DIRECT DRIVE IN	TEGRAL ATTENUAT	ION PLENUM FAN	4.5	2.25
-								1		
						AIR H	ANDLING UN	T SCHEDULE	(CONTINUE	D)
						AIR H	ANDLING UNI HEATING C		(CONTINUE	D)
TAG	LOCATION	МВН	EAT	LAT	EWT	AIR HA			(CONTINUE	D) # OF COI COIL B/
		MBH 346.6	EAT 38.3	LAT 63	EWT 150		HEATING C	OIL		# OF COI

NOTES:

1. COOLING COIL AND HEATING COIL FACE VELOCITIES SHALL NOT EXCEED 480 FPM. 2. AHU-1 FILTERS: 2" PRE-FILTER WITH 12" MERV 14 PRIMARY FILTERS. 6@24"X24", 2@24"X12".

3. AHU-2 FILTERS: 2" PRE-FILTER WITH 12" MERV 14 PRIMARY FILTERS. 2@24"X24", 2@24"X12". 4. SEE FAN SOUND POWER SCHEDULE FOR MAX. ALLOWABLE FAN SOUND POWER DATA.

LINEAR FLOOR DIFFUSERS													
				MODULATING						COIL DATA			
TAG	WIDTH	LENGTH	CORE STYLE	DAMPER	MAX CFM	MIN CFM	NC AT MAX CFM	TSP	HEATING MBH	EWT	GPM	MANUFACTURER AND MODEL NO.	REMARKS
LFD-1	0' - 10"	8' - 0"	LINEAR BAR 15A	YES	600	180	<15	.04"	5536	150	2	PRICE LNT W/LFG GRILLE	-
LFD-2	0' - 10"	6' - 0"	LINEAR BAR 15A	YES	340	100	<15	.04"	4152	150	2	PRICE LNT W/LFG GRILLE	-
LFD-3	0' - 10"	4' - 0"	LINEAR BAR 15A	YES	225	68	<15	.04"	2768	150	2	PRICE LNT W/LFG GRILLE	-
LFD-4	0' - 10"	8' - 0"	LINEAR BAR 15A	NO	-	-	-	-	4555	150	2	PRICE LNT W/LFG GRILLE	1
LFD-5	0' - 10"	6' - 0"	LINEAR BAR 15A	NO	-	-	-	-	3174	150	2	PRICE LNT W/LFG GRILLE	1
LFGH-1	0' - 6"	4' - 0"	LINEAR BAR 15A	YES	500	300	<15	.08"	6370	150	2	PRICE LFGH WITHOUT GRILLE	2
LFGH-2	0' - 6"	2' - 0"	LINEAR BAR 15A	YES	200	100	<15	.08"	4290	150	2	PRICE LFGH WITHOUT GRILLE	2

<u>Remarks</u>: 1. No supply airflow opening or damper. 2. CLIENT SELECTED STANDARD DEFLECTION FIXED CORE WOODEN GRILLE TO HIDE SUPPORT FLANGE.

						RO	UND FLOOR DIFF	USERS	
							PD AT MAX CFM (IN.		
TAG	FACE SIZE	FACE PATTERN	BASKET TYPE	MOUNTING	MAX CFM	NC AT MAX CFM	WC)	MATERIAL	FINISH
RFD-1	0' - 10"	DISPLACEMENT	VARIABLE FLOW	RING PRESS FIT	56	<15	.03	ALUMINUM	BLACK

				LINEAR SL	OT DIFFUSEF	R SCHEDULE			
TAG	NUMBER OF SLOTS	SLOT WIDTH (IN)	LENGTH (IN)	MAX. NC	MAX CFM	INLET SIZE (IN)	HEIGHT (IN)	MANUFACTURER	MODEL
LD-1	2	1	48	25	279	8	8	PRICE	TBD3100

			MINI-S	-SPLIT SYSTEM CONDENSING UNIT SCHEDULE						
		OUTDOOR DESIGN DATA			ELECTRI	CAL DATA				
		SUMMER AMBIENT	MINIMUM							
TAG	LOCATION	TEMPERATURE (°F)	EFFICIENCY (SEER)	MCA	MOP	VOLTS	PHASE	MANUFACTURER		
ACCU-1	MECHANICAL YARD	95	21.5	13	20	208	1	LG		

		MII	NI-SPLIT SYSTEN	I FAN UNIT SCHEDU	LE		
TAG	LOCATION	ТҮРЕ	AIRFLOW (CFM)	COOLING DATA TOTAL CAPACITY (MBH)	MANUFACTURER	MODEL	REMARKS
FCU-1	IT CLOSET	WALL MOUNTED	706	18,000	LG	LSN180HSVS	REFIARRO

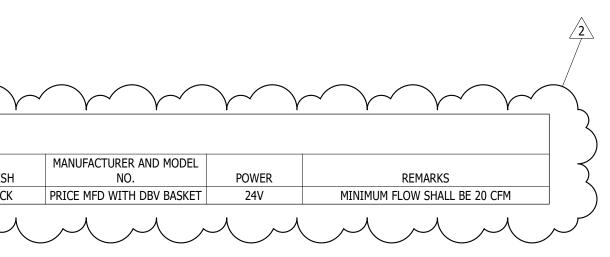
	FAN SOUND POWER SCHEDULE														
TAG	63 HZ	125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ	8000 HZ	REMARKS						
AHU-1 FAN INLET	78	79	81	81	75	75	76	71							
AHU-1 FAN OUTLET	90	86	86	89	86	82	79	72							
AHU-2 FAN INLET	75	71	78	72	68	71	68	65							
AHU-2 FAN OUTLET	82	84	79	79	80	76	73	66							
RF-1 INLET	79	88	87	84	83	79	74	65							
RF-1 OUTLET	84	87	86	88	86	81	75	65							

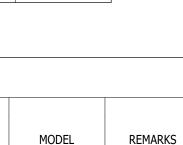
					LING UNIT S	CHEDULE																	
	SUPPLY FAN DATA	l l											COOLING COIL DA	TA									
									ERING AIR (°F)	LEAVI	NG AIR (ºF)	CAP	ACITY (MBH)				# OF						
		MAX RPM/FAN CLASS	MOTOR HP BH		RPM PH	IASE	VOLTS MAX APD	(IN DB	WB	DB	WB	SENS	TOTAL			NUMBER OF COILS HIGH	REFRIGERANT	CIRCUI	TINC				
N WG)	ESP (IN WG) 2.0	2546/III	20 12		.698	1ASE	VOLTS WG) 460 .35	86.5	68.1	55		408.8		SUCTION TEMP 41	LIQUID TEMP (F) 110		CIRCUITS	INTERTV					
כ ב	2.0	2546/III 2546/III	10 5.		.578	3	460 .39	82	66.8	55	54	164.19	242.8	41 41	110	1	36 (2 @ 18) 1 @ 18	THERMAL PAR					
INUE))																						
	# OF COILS IN														CONDENSING	G UNIT SCH	EDULE						
PD	COIL BANK	ROWS	PIPING RUNOUT	MANUFACTUR		REMAR	(S			MIN TOTAL							ELECTRIC	AL DATA					
.1	2	2	2" (1-1/4" TO EACH COIL)		INDOOR			TAG	LOCATION	CAPACITY (BTUH)	MIN IEER	POWER	REFRIGERANT	NUMBER OF FANS	MCA (CCT1)	MOP (CCT1)	MCA(CCT2)	MOP (CCT2)	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
.1		2	1-1/4"	HAAKON	INDOOR			CU-1A	MECHANICAL YARD	288,000	21.0	2 CIRCUITS	R410A	4	16.4	25	35.7	50	460	3	LG	ARUM 288DTE5	VARIABLE SPEE LEAD COMPRESSOR
								CU-1B	MECHANICAL YARD	288,000	21.0	2 CIRCUITS	R410A	4	16.4	25	35.7	50	460	3	LG	ARUM 288DTE5	VARIABLE SPEE LEAD COMPRESSOR
								CU-2	MECHANICAL YARD	233,100	22.70	1 CIRCUIT	R410A	2	41.4	50	0	0	460	3	LG	ARUM241DTE5	VARIABLE SPEE LEAD

TAG

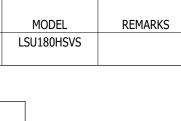
B-1 B-2

<u>/2</u>





REMARKS



						HOT WA	TER CABINE	T HEATER/PROI	PELLER UNI	T HEATER SCI	HEDULE				
					HEATING C	OIL DATA				ELECTRICAL DATA					
TAG	LOCATION	ТҮРЕ	CFM	TOTAL CAPACITY (MBH)	EAT (ºF)	GPM	EWT (°F)	WPD (FT WG)	HP	VOLTS	PHASE	MANUFACTURER	MODEL	CONTROL VALVE	REMARKS
CUH-1	NORTH VESTIBULE	FLUSH CEILING	540	37	60	2.4	150	3.6	0.12	120	1	TRANE	FFEB 060	3 WAY	HORIZONTAL RECESSED, BOTTOM STAMPED INLET
CUH-2	SOUTH VESTIBULE	FLUSH CEILING	540	37	60	2.4	150	3.6	0.12	120	1	TRANE	FFEB 060	3-WAY (HORIZONTAL RECESSED, BOTTOM STAMPED INLET AND OUTLET
PUH-1	MECH	PROP HEATER	1100	30	60	2.0	150	0.5	0.125	120	1	TRANE	70S	2-WAY	

											TOR SCHEDU	JLE									
						WHEEL		ACCOUST	TCAL DATA				FAN EFFICIENCY			MOTOF	R DATA				
TAG	LOCATION	SERVICE	CFM	TSP (IN WG)	FAN TYPE	DIAMETER (IN)	DRIVE TYPE	SONES	INLET dBA	ACCESSORIES	BHP	RPM	GRADE	CONTROL	HP	MOTOR RPM	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
RF-1	MECH	AHU-1 RELIEF	12,500	1.5	MIXED FLOW	27	DIRECT	24	76	2	5.08	1770	71	VFD - BMS	7.5	1170	460	3	GREENHECK	QEID-27	
TEF-1	ROOF	TOILET EXHAUST	780	0.625	DOME	10	DIRECT	14.1	64	1,2,3,4,5	.26	2113	-	BMS	0.5	2500	120	1	GREENHECK	G-103HP-VG	
TEF-2	ROOF	TOILET EXHAUST	450	0.625	DOME	10	DIRECT	8.1	55	1,2,3,4,5	.11	1552	-	BMS	0.33	1725	120	1	GREENHECK	G-123-VG	

REMARKS: 1. COUNTERBALANCED BACKDRAFT DAMPER.

2. UNIT MOUNTED DISCONNECT. 3. OUTDOOR CONSTRUCTION.

4. VARI-GREEN EC MOTOR. 5. INTEGRAL SPRING LOADED BACKDRAFT DAMPER.

							AI	R TERMINAL	UNIT SCHE	DULE						
									HYDR	ONIC HEATING DATA						
TAG	INLET SIZE (IN)	MAX CFM	HEATING CFM	MIN CFM	MAX APD (IN WG)	EAT (ºF)	LAT (°F)	EWT (°F)	LWT (°F)	CAPACITY (MBH)	GPM	MAX WPD (FT WG)	RUNOUT SIZE (IN)	MANUFACTURER	MODEL	REMARKS
VAV-01	8	510	255	170	0.45	55	75	150	120	10.5	0.7	3	0.75	PRICE	SDV	-
VAV-02	6	325	200	110	0.45	55	75	150	120	6.5	0.5	3	0.75	PRICE	SDV	-
VAV-03	6	300	150	100	0.45	55	75	150	120	4.9	0.5	3	0.75	PRICE	SDV	-
VAV-04	12	1575	1000	525	0.45	55	75	150	120	37.8	2.5	3	0.75	PRICE	SDV	3-WAY CONTROL VALVE
VAV-05	6	200	150	70	0.45	55	75	150	120	6.6	0.5	3	0.75	PRICE	SDV	-
VAV-06	6	305	155	105	0.45	55	75	150	120	6.3	0.5	3	0.75	PRICE	SDV	-
VAV-07	6	200	100	70	0.45	55	75	150	120	3.3	0.5	3	0.75	PRICE	SDV	-
VAV-08	6	300	150	100	0.45	55	75	150	120	4.5	0.5	3	0.75	PRICE	SDV	-
VAV-09	6	340	170	115	0.45	55	75	150	120	8.9	0.6	3	0.75	PRICE	SDV	-
VAV-10	6	310	150	105	0.45	55	75	150	120	5	0.5	3	0.75	PRICE	SDV	-
VAV-11	8	425	215	145	0.45	55	75	150	120	9.8	0.7	3	0.75	PRICE	SDV	-
VAV-12	6	270	160	90	0.45	55	75	150	120	6.4	0.5	3	0.75	PRICE	SDV	-
VAV-13	6	150	75	50	0.45	55	75	150	120	3.1	0.5	3	0.75	PRICE	SDV	-
VAV-14	8	500	150	170	0.45	55	75	150	120	5.7	0.5	3	0.75	PRICE	SDV	-
VAV-15	6	220	110	75	0.45	55	75	150	120	3.9	0.5	3	0.75	PRICE	SDV	-

	PUMP SCHEDULE														
									ELECTRICAL DATA						
TAG	LOCATION	TYPE	TYPE SERVICE	GPM	FEET HEAD	EFFICIENCY (%)	MOTOR RPM	HP	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS		
CP-1	MECH	IN-LINE CIRCULATOR	FREEZE PROTECTION	2	12	-	2950	0.17	115	1	B&G	NBF-33			
CP-2	MECH	IN-LINE CIRCULATOR	FREEZE PROTECTION	2	12	-	2950	0.17	115	1	B&G	NBF-33			
HWP-1	MECH	END SUCTION	HEATING WATER	75	65	56.3	1750	3	460	3	B&G	1532 1.25BC			
HWP-2	MECH	END SUCTION	HEATING WATER	75	65	56.3	1750	3	460	3	B&G	1532 1.25BC			

TAG ET-1

MECH CONDENSING 1000 961 50 4"-7" 5.2 115 1 CLEAVER BROOKS CFC 1000					GAS FIRE	ED BOILER SO	HEDULE					
MECH CONDENSING 1000 961 50 4"-7" 5.2 115 1 CLEAVER BROOKS CFC 1000			GROSS INPUT	GROSS OUTPUT	RELIEF VALVE	BURNER INLET		ELECTRICAL DATA				
	LOCATION	TYPE	(MBH)	(MBH)	SETTING (PSIG)	PRESSURE	AMPS	VOLTS	PHASE	MANUFACTURER	MODEL	REMARKS
	MECH	CONDENSING	1000	961	50	4"-7"	5.2	115	1	CLEAVER BROOKS	CFC 1000	
MECH CONDENSING 1000 961 50 4"-7" 5.2 115 1 CLEAVER BROOKS CFC 1000	MECH	CONDENSING	1000	961	50	4"-7"	5.2	115	1	CLEAVER BROOKS	CFC 1000	

DIMENSIONS			
THROAT LENGTH THROAT WIDTH THROAT			
	MANUFACTURER	MODEL	REMARKS
RH-1GRAVITY RELIEF HOOD3,000.0194842286AHU-2ALUMINUM	GREENHECK	FGI	
RH-2GRAVITY RELIEF HOOD3,000.0194842286AHU-2ALUMINUM	GREENHECK	FGI	
GRILLE/REGISTER AND DIFFUSER SCHEDULE			
SQUARE NECK ROUND NECK MAX NC (AT MAX			
TAG FACE SIZE (IN) SIZE (IN) MAX CFM CFM) MATERIAL FINISH TYPE	MANUFACTURER	MODEL	REMARKS

G-1	24x12	22x10	-	720	25	ALUMINUM	WHITE	EGGCRATE	PRICE	80	-
G-1	24x12	22x10	-	720	25	ALUMINUM	WHITE	EGGCRATE	PRICE	80	· · ·
G-2 ~	24+24	22x22		1083	25	ALUMINUM	WHITE	EGGORATE	PRICE	80	$\sqrt{1-\sqrt{2}}$
(G-3)	λ -		Γ, Γ		- 1	, -	·	, , , , , , , , , , , , , , , , , , ,		-	1
iD-1	24x24		~6"\Q	196	<u></u>	STEEL	(WHATE	∠ PLAQUE ∕		SPD	
D-2	24x24	-	8" Ø	314	25	STEEL	WHITE	PLAQUE	PRICE	SPD SPD	
D-3	24x24	-	10" Ø	436	25	STEEL	WHITE	PLAQUE	PRICE	SPD	-
G-1	12x6			250	18	STEEL	WHITE	SIDEWALL	PRICE	510	-
\frown		$\gamma \gamma $		\checkmark \checkmark	$ \searrow $	\searrow	\sim	LOUVERED	\sim		
G-2	-	-	-	- '	· -	Υ <u></u> Υ	_ Y	Y _ Y	_Y	Y _ Y	Υ ₁
G-3	-	-	-	-	-	-	-	-	-	-	1

REMARKS: 1. CLIENT SELECTED GRILLE. REFERENCE A-SERIES DRAWINGS FOR MORE INFORMATION.

PRESSUIRIZED EXPANSION TANK AND AIR CONTROL SCHEDULE

			TANK VOLUME	ACCEPTANCE	PRECHARGE	AIR	SEPARATOR / PURGE	R			
AG	SERVICE	TYPE	(GAL)	VOLUME (GAL)	PRESSURE (PSIG)	TAG	MANUFACTURER	MODEL	MANUFACTURER	MODEL	REMARKS
Г-1	HEATING WATER	BLADDER	158	158	12	AS-1	B&G	4"	WESSELS	NLA-600	

